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GARDEN AND FARM
SUPPLIES,

SEEDS.

F. H. EBBELING & CO.

1868-1913.

RETAIL
STORE:

217 WARREN STREET.

WAREHOUSE:

538-540 CANAL STREET.

Syracuse, N.Y.

PRICE LIST

RAFFIA, REED AND SWEET GRASS.

REED.					RAFFIA.				
No.	0	Reed.....	per lb.	\$1.50	per oz.	15c	Natural.....	per lb.	.25 per oz. 5c
1	"	"	1.00	"	10c			
2	"	"	.85	"	10c	Colored—in 8 shades	"	.65 " 10c
3	"	"	.75	"	10c			
4	"	"	.75	"	10c	SWEET GRASS....	"	\$2.50 " 20c
5	"	"	.75	"	10c			

Books of instruction on Raffia work and Basketry Illustrated mailed on receipt of 40c.

Mail and Express Orders given Prompt Attention.

BOOKS--IT PAYS TO READ--BOOKS.

We will send any of these books, postpaid, to any address upon receipt of prices annexed

Alfalfa, and How to Grow It, by F.D. Coburn, 60c.
 Asparagus Culture, 60c.
 Gregory on Cabbages, 40c.
 Celery Culture, by J. C. Vaughan, 60c.
 Feathered Pets—Complete Book on Birds, 40c.
 The Practical Fruit Grower, cloth, 60c.
 Insects and Insecticides, by Prof. C. M. Weed, \$1.75.
 Mushroom Culture, by William Falconer, \$1.25.
 Gregory on Onion Raising—What kind to raise and how to raise them, 4c.
 Strawberry Cultivist, by Andrew S. Fuller, containing all information necessary to enable everybody to raise their own strawberries. Illustrated. Flexible cloth, 25c.
 A B C of Agriculture, 60c.
 A B C of Strawberry Culture, 50c.
 A B C of Potato Culture, 5c.
 Silos, Ensilage and Silage, cloth, 50c.
 Tomato Culture, 135 pp., illustrated, 50c.
 Our Farm of Four Acres and the Money we made by It, paper cover, 12 mo., 40c.
 First Lessons in Dairying, by Hulbert E. Van Norman, 50c.
 Physical Properties of the Soils, by A. G. McCall, 50c.
 Soiling Crops and the Silo, by Thomas Shaw, \$1.50.

The Horse: How to Buy and Sell, by Peter Howden, \$1.00.
 How to Handle and Educate Vicious Horses, by Oscar R. Gleason, 50c.
 Key to Profitable Stock Feeding, by Herbert Myrick, 25c.
 Swine in America, by F. D. Coburn, \$2.50.
 Diseases of Swine, by Dr. R. A. Graig, 75c.
 Silos, Ensilage and Silage, by Manly Miles, 50c.
 The Practical Fruit Grower, by S. T. Maynard, 50c.
 Landscape Gardening, by F. A. Waugh, 50c.
 Spraying Crops, by C. M. Weed, 50c.
 Barn Plans and Outbuildings, \$1.00.
 Ten Acres Enough, by I. P. Roberts, \$1.00.
 Hunter and Trapper, by Halsey Thrasher, 50c.

BOOKS—POULTRY.

Reliable Poultry Remedies. How to Prevent and Cure Diseases. 84 pages, 40c.
 Ducks and Geese. How to Succeed with Water Fowls. 84 pages, 85c.
 Turkeys. How to Raise Turkeys Profitably. 84 pages, 85c.
 Profits in Poultry, \$1.00.
 Poultry Feeding and Fattening, by G. B. Fiske, 50c.

USEFUL TABLES.

Of Plants per Acre at the following distances apart.

ft. by	1	ft.	43,560	6	ft by	6	ft.	1,210
½	"	1½	ft. 19,360	8	"	8	ft. 680	
"	"	1	ft. 21,780	9	"	9	ft. 537	
"	"	2	ft. 10,898	10	"	10	ft. 435	
½	"	2½	ft. 6,969	12	"	12	ft. 302	
"	"	1	ft. 14,520	15	"	15	ft. 193	
"	"	2	ft. 7,260	18	"	18	ft. 134	
"	"	3	ft. 4,840	20	"	20	ft. 103	
"	"	4	ft. 2,722	25	"	25	ft. 70	
"	"	5	ft. 1,742	30	"	30	ft. 48	

Number of Plants Produced from 1 oz. of Seed.

Plants		Plants	
Asparagus	about 500	Kale	about 2,000
Broccoli	" 2,000	Leek	" 1,000
Cabbage	" 3,000	Lettuce	" 3,000
Cauliflower	" 4,000	Pepper	" 2,000
Celery	" 4,000	Sage	" 1,000
Egg Plant	" 1,000	Tomato	" 3,000
Endive	" 3,000	Thyme	" 5,000

SEED SOWN PER ACRE.

Seed Sown per Acre.	Wt. per bu	Seed Sown per Acre.	Wt. per bu	Seed Sown per Acre.	Wt. per bu
Timothy, ¼ to ½ bu	45 lbs	Millet, ½ to ¾ bu	50 lbs	Dwarf Essex Rape, . . .	5 lbs
Lucerne, or Alfalfa, 30 lbs	60 lbs	Hungarian, ½ to ¾ bu	48 lbs	Peas, 2½ bu	60 lbs
Clover, Red, 10 to 15 lbs	60 lbs	Wheat, 2 bu	60 lbs	Beans, 1 bu	62 lbs
Clover, Alsike, 5 to 10 lbs	60 lbs	Buckwheat, ¾ to 1 bu	48 to 50 lbs	Pumpkin Seed, 2 qt	27 lbs
Clover, Crimson, 15 lbs	60 lbs	Rye, 1 to 2 bu	56 lbs	Turnip, 1 lb	
Cow Peas, 60 lbs	60 lbs	Oats, 2 to 3 bu	32 lbs	Spinach, 8 lbs	42 lbs
Red Top, 2 to 2½ bu	14 lbs	Oats, Winter, 1¾ bu	32 lbs	Beet, 4 to 6 lbs	
Blue Grass, 2 bu	14 lbs	Barley, 2 bu	48 lbs	Squash, 2½ lbs per acre	
Orchard Grass, 2 bu	14 lbs	Flax Seed, 1 bu	56 lbs	Parsnips, 3 to 4 lbs	
Yellow Sand Clover, 15 lbs	60 lbs	Corn, ½ bu	56 to 60 lbs	Cabbage, ¼ lb	
White Clover, 6 to 10 lbs	60 lbs	Potatoes, 6 bu	62 lbs	Cucumber, 1 lb	
Sweet Vernal, 1 to 1½ bu	11 lbs	Sweet Corn, ¼ bu	about 45 lbs	Carrot, 2½ to 3 lbs	20 lbs
				Onion, 5 to 6 lbs	56 lbs

NON-WARRANTY.—F. H. Ebeling gives no Warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants he sends out, and he will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

1868=The Result of 45 Years=1913

The patronage of Central New York people is heartily appreciated. As a result of your co-operation and patronage I now begin my forty-ninth year of continuous success in business.

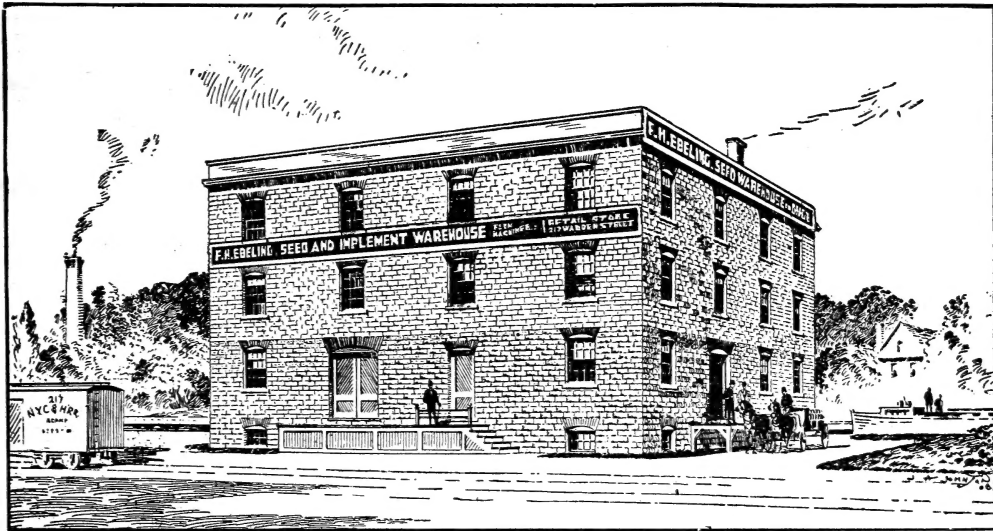
Each year for 45 years I have endeavored to give my customers the best seeds that Mother Earth can supply. My slogan has always been "Nothing is too good for my customers". There's as much difference in seeds as in people and my experience covering three generations has taught me how to provide you with the right quality of seed and the most practical supplies for the farm, garden, greenhouse, lawn, dairy and poultry yard.

The seeds or bulbs we import or contract for you for flower garden or farm are "pedigreed" seeds or bulbs—and of varieties best adapted for this climate.

Feeling confident that this catalog and seed book will help you make 1913 the most prosperous, profitable and satisfactory of all the years, I remain

Yours very sincerely, F. H. EBÉLING.

January, 1913.

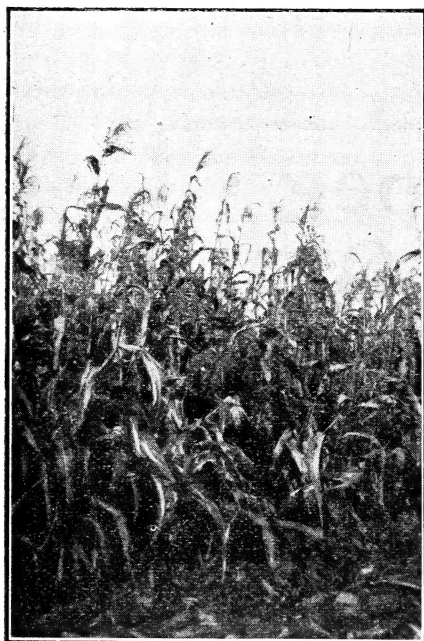


F. H. EBELING'S SEED AND IMPLEMENT WAREHOUSE.
538 and 540 Canal St. RETAIL STORE, 217 Warren St.

INDEX TO SELECT FLOWER SEEDS.

NAME	PAGE	Baptisia	35	Coreopsis	36	Gloxinia	38	Maurandia	39	Ricinus	40
Abobra	34	Bartonia	35	Cosmos	36	Godetia	38	Mesembryan-		Salpiglossis	40
Abronia	34	Begonias	35	Cucurbita	37	Gourds	38	themum	39	Salvia	40
Abutilon	34	Bellis	35	Cyclamen	37	Grasses	38	Mignonette	39	Scabiosa	40
Acacia	34	Brachycome	35	Cyperus	37	Gypsophila	38	Mimosa	39	Scarlet Run-	
Aconitum	34	Calceolaria	35	Cypress Vine	37	Helianthus	38	Mimulus	39	ner Beans	40
Acroclinium	34	Calendula	35	Dahlia	37	Helichrysum	38	Mirabilis	39	Schizanthus	40
Adlumia	34	Calliopsis	35	Datura	37	Heliotrope	38	Momordica	39	Smilax	40
Adonis	34	Campanula	35	Delphinium	37	Hibiscus	38	M o r n i n g		Snapdragon	40
Ageratum	34	Canary Bird		Dianthus or		Hollyhocks	38	Glory	39	Solanum	40
Agrostemma	34	Vine	35	pinks	37	Honesty	38	Musa Ensete	39	Stocks	40
Alyssum	34	Candy Tuft	35	Didiscus	37	Humulus	38	Musk Plant	39	Sunflower	41
Amaranthus	34	Canna	36	Digitalis	37	Impatiens	38	Myosotis	39	Sweet Peas	41
Ammobium	34	Canterbury		Dolichos	37	Ipomoea	38	Nasturtiums	39	Sweet Rocket	41
Ampelopsis	34	Bell	36	Dracaena	37	Job's Tears	38	Nicotiana	39	Sweet Sultan	41
Anemone	34	Carnation	36	Echinocystis	37	Kenilworth		Nigella	39	Sweet Will-	
Antirrhinum	34	Castor Oil		English Daisy	37	Ivy	38	Orna Grasses	39	iam	41
Aquilegia	34	Bean	36	Erigeron	37	Lantana	38	Pansies	39	Tagetes	41
Arabis	34	Celosia or		Eryngium	37	Larkspurs	38	Passiflora	40	Thunbergia	41
Arctotis	34	Cristata	36	Eschscholt-		Lathyrus	38	Pentstemon	40	Torenia	41
Aristolochia		Centaurea	36	zia	37	Lavender	38	Perilla	40	Tritoma	41
Sipho	34	Chrysanthem-		Euphorbia	38	Lavender	38	Petunia	40	Tropaeolum	41
Armeria	34	mums	36	Forget-me-		Linum	38	Phlox Drum-		Verbenas	41
Asparagus	34	Cineraria	36	not	38	Lobelia	38	mondi	40	Viola	41
Asperula		Clematis	36	Four O'clock	38	Lophosper-		Pinks	40	Vinca	41
Odorata	34	Clianthus	36	Fox Glove	38	mum	38	Poppies	40	Wall Flower	41
Asters	34	Cobaea	36	Fuchsia	38	Lupinus	38	Portulaca	40	Wild Cucum-	
Bachelor's		Coccinea In-		Gallardia	38	Lychnis	38	Primula	40	ber	41
Buttons	35	dica	36	Geranium	38	Marigold		Pyrethrum	40	Wild Flower	
Balloon Vine	35	Coleus	36	Globe Amar-		Matricaria	39	Roseda	40	Garden	41
Balsams	35	Convulvus	36	anth	38	Rhodanthe		Zinnia	40	Zinnia	41

EUREKA ENSILAGE CORN



A Wonderful Yields

After considerable difficulty we have again secured a car lot of the genuine Eureka Ensilage Corn, which was originated and grown under special supervision on the bottom lands of Virginia.

This distinct variety is especially noted for its abundant leaves and extreme height, as many will remember the extraordinary growth of this particular variety shown by us in our exhibit at the New York State Fair two years ago, measuring 19 feet in height.

This wonderful variety was originated some twenty years ago, and with careful selection since that time it has developed into the most profitable ensilage variety known.

Being grown beyond the frost line ensures a perfect seed stock. Our short season does not allow it to mature, instead, our strong northern soil produces an extremely heavy growth of stalk and leaf, making it especially valuable as an ensilage. You will find the quantity about double that of the common ensilage varieties.

Be Sure You Get The Genuine Eureka

Do not be misled by those who claim to have the real Eureka Ensilage Corn, as it is liable to be only the common Southern Horse-Tooth variety, and not to be compared with the Eureka Ensilage Corn.

WE CALL ATTENTION to the fact that this genuine Eureka Corn will be unusually scarce this season, and to insure getting what you want, would urge that you place an order early. After our stock is exhausted we shall not be able to secure any more.

Here is What One Farmer Says :

About Eureka Corn and how he successfully combined it with another good variety. Mr. F. H. Ebeling,

Syracuse, N. Y.

Dear Sir—I planted a large field of Eureka Ensilage Corn which produced a wonderful growth of stalks, the tallest, most leafy and the best for Ensilage that I had ever grown. I mixed some Leaming Corn with this which furnished a fine growth of eared corn, making a suitable Ensilage for the Silo. I believe by combining the wonderful leafy growth of the Eureka with that of the ear-producing Leaming variety forms a combination that will produce a perfect Ensilage for winter feeding.



Yours very truly, Isaac H. Broadhurst. Marcellus, N. Y., Nov. 20, 1912.

EARLY MEDIUM GREEN SOY BEANS



USEFULNESS OF THE EARLY MEDIUM GREEN SOY BEANS—Soy Beans have a higher protein content than oil meal. Hay from them has a higher protein content than Alfalfa. The green fodder contains a higher protein content than either alsike or medium red clover. Add to this the fact that it is easily possible to secure two to three, or occasionally four to five tons of dry hay per acre; that from twenty to thirty bushels of seed per acre are frequently reported; that the plant is a legume and adds fertility to the soil fully as rapidly as the clovers or other legumes; that it will grow on soil too poor or acid for the easy success of Alfalfa; and you have a splendid combination, certainly qualities that are hard to excel with any of our cultivated crops.

No plant has a more useful range of possibilities than the Soy Bean. When one stops to think of the great feeding value of the grain, of the entire plant's being very valuable for forage of its being a legume and a heavy gatherer of nitrogen to the soil, not difficult to grow or exacting as to the kind of soil it requires, we must realize that it occupies a position unique among all our crops. Not only is the grain as nourishing as oil meal, but it is as greedily eaten as corn and as easily digested as any grain. Moreover, there seems to be a tonic effect about the entire plant, and stock fed either the grain or the forage become full of energy as with no other grain.

As a nitrogen gatherer we are sure the Soy Bean has no superior, and where a crop to plow under is desired, nothing is better to add humus to the soil.

Its possibilities for silage has been thoroughly tested in connection with corn, the beans greatly assisting to make a balanced ration. When all these facts are considered, and also that it will grow on either fertile or impoverished soils, either limestone or freestone, its value is an established fact.

Many a time a meadow winter-kills and a catch-crop is needed. Millet has been largely used, but Soy Beans mature so quickly that they may be sown at the same time you would Millet, and the hay is much more valuable. One hundred pounds of Soy Bean Hay contains twice as much protein as the same quantity of Millet Hay.

Making Soy Bean Hay—September is the best month for making Soy Bean Hay. Begin cutting as soon as the dew is off the plants, and continue the rest of the day. Let the plants lie in the swath until the leaves are well wilted, but rake them before the leaves become dry and brittle. They should be left in the windrows for a day or two then put in small cocks. Three to six days of good weather are required for making Soy Bean Hay. The hay when dry should be placed in good-sized stacks or under a shed. When stacked the hay should be covered as it does not shed rain well.

What will surprise the grower is the splendid value of the hulls and stalks after the grain has been threshed. Both cows and sheep prefer the hulls to clover hay, and eat them and the stalks, dry and woody as they seem, and like them fully as well as the clover.

Time of Planting and Cultivation—Soy Beans are not a lazy man's crop. They require as much skill and patience as the potato crop. Plow your land early in the spring, if possible, selecting soil that is not too foul with weeds. Prepare and cultivate the same as for corn, giving frequent harrowings to kill the weeds as they appear; therefore, wait until corn planting time before planting the beans. Plant in with the corn or in alternating rows. Sow 3-4 bu. to the acre. We advise planting in drills about 36 inches apart, 2 or 3 inches in the drill.

Price, \$5.00 per bushel.

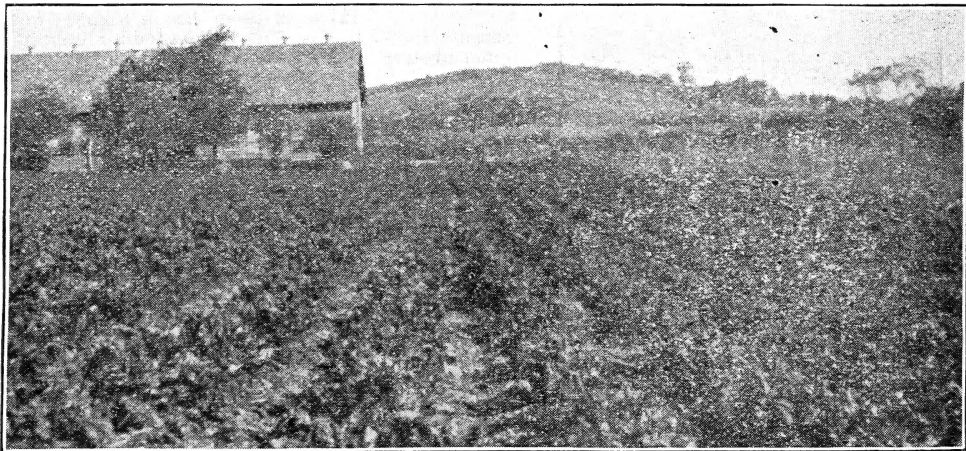
Book on Soy Beans by W. F. Ingalls, a practical farmer, of Hamilton, N. Y., who has grown the Early Medium Green Soy beans for many years, and is an authority on same.

Price, 60 cents



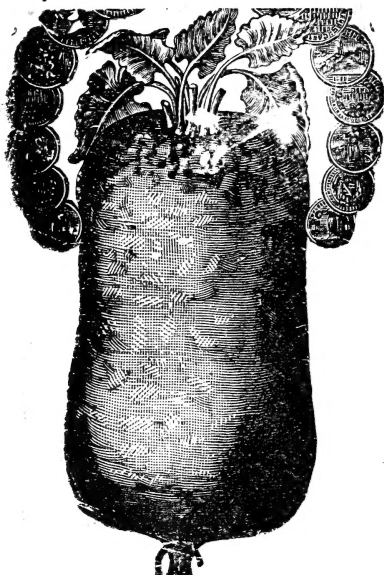
See page 17 for Testimonials

HOW WOULD YOU LIKE TO HAVE A FARM LIKE THIS?



THE "DAVID HARUM" FARM, HOMER, N. Y.

This illustration is made from an actual photograph of a field of Ideal Mangel Beets grown on the "David Harum" Farm at Homer, N. Y. The farm is owned by Chas. M. Crouse of Syracuse.



NEW IDEAL MANGEL.

Size, quality and yield are three important points that no farmer can afford to overlook. This season we have a limited quantity of seed to offer. While it lasts we will offer it at \$1.00 per pound.

Syracuse, N. Y., Jan. 18, 1913

Mr. F. H. Ebeling, Syracuse, N. Y.

Dear Sir:

I have grown Mangel Beets for years on my Homer farm but in recent years only the Ideal Mangel, which I consider the most satisfactory, because of its large percentage of sugar, the ease of harvesting and the feeding results obtained. Last year I grew about 4 acres, yielding 115 1 2 tons of harvested beets. This year I intend to increase my acreage.

Yours very truly,

CHARLES M. CROUSE

THE IDEAL SUGAR MANGEL BEET

Our illustration faithfully shows the shape of this beet. Its perfect "hunk" form stands for easy harvesting in hard soils. This new and original Mangel has been compared with thirty other varieties by laboratory tests on trial grounds and their demonstration has proved the Ideal to be superior in quality from each of the following points:

It contains the greatest amount of dry substance.

It contains the greatest amount of sugar, which means feeding value.

This Mangel always grows high above ground.

It's the easiest of all to harvest.

These Mangels, under favorable conditions, sometimes weigh 30 lbs.

"A small farm cultivated is more fruitful than a large farm neglected."

The farther advanced the culture of a people may be, the greater is the demand for food.

There was a time when a man's sustenance was represented by 32-3 pounds of rye per day, which unit of rye when made into bread and eaten, with copious draughts of water, kept the human machine running.

Soil fitness determines profits in farming. If the soil is not fit, the **finest seed in the world** will produce but an indifferent crop. Soil condition is the most important soil fact, first and always.

A fit soil is mellow and deep, penetrated to the innermost recesses with air. Natural manures are there. Weeds are absent.

Fertility is maintained by watchfulness; by replacing the foods taken away by crops. Woven wire fence should surround it, protecting and adding to the profits.

IOWA GOLD MINE ENSILAGE CORN.

The Deepest Grained, Purest Yellow Corn in Existence. The Corn that has put Thousands of Good Gold Dollars into the pockets of our farmers and dairymen.

The Iowa Gold Mine Corn is giving such eminent satisfaction that we again give it the place of honor in the corn family. It puts **gold dollars** in the pockets of all who use it. I can only repeat what I said about it in 1911.

This magnificent variety of corn will grow 14 feet high and matures with our field varieties. It has the largest kernel and smallest cob of any Ensilage Corn known. The grain value of this wonderful variety is about double that of the Leaming or Pride of the North with their immense cobs and small kernels. It is everything that the Pride of the North and Leaming can possibly be, with the great grain producing quality added. There you have it in a nut-shell. It is the biggest milk and money producer on the American continent. Price \$2.00 bu. shelled

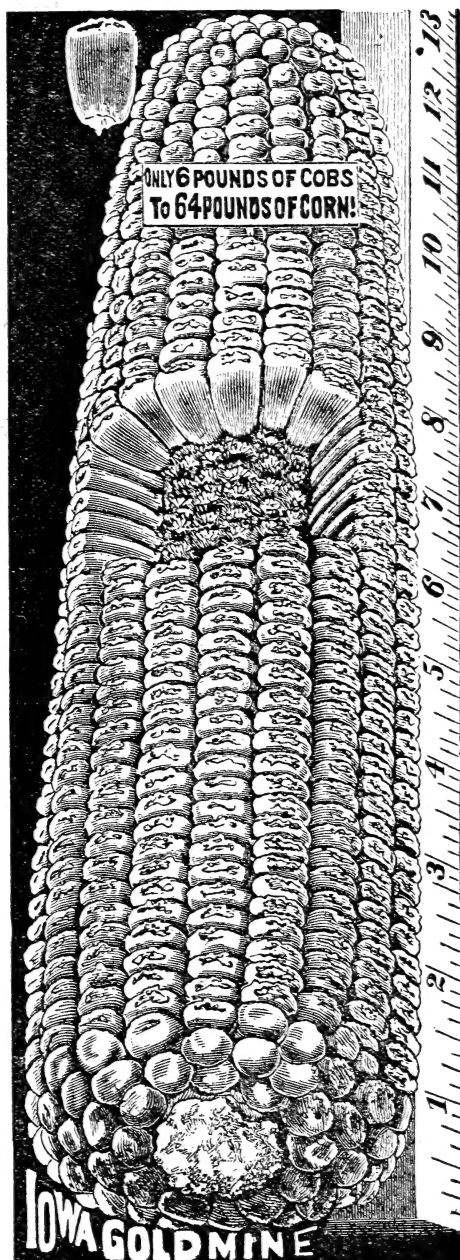
LUCY'S FAVORITE DENT FIELD CORN

This variety contains the best there is in the Western Dent and Eastern Flint.

Stalks are tall, slender and contain many wide leaves. A long ear with small cob filled with large, broad, dented kernels, thus combining all the good points to be found in the parent stock.

This corn was grown in Onondaga County and is thoroughly acclimated. It may be planted as late as May 25th and will ripen with our ordinary State Flint sorts.

Lucy's Favorite is a strong growing bright yellow dented corn, a hybrid of White Flint and Western Dent, taking the small cob of the White Flint with the large kernels of the Dent corn flattened out to the size of your finger nail. Corn breaks off very easy in husking. Stalks oftentimes having two and three ears being one of the heaviest yielders I ever raised. Planted May 18th, it was fully matured and cut before the frosts touched it. Extra good for fodder, as its leaves are very broad and long. Like all hybrids of this class it grows eight, ten or twelve rows to the ear. A bushel basket of Lucy's Favorite Corn shelled weighed 34 1-2 pounds, equal to 69 pounds of shelled corn to two bushels of ears.



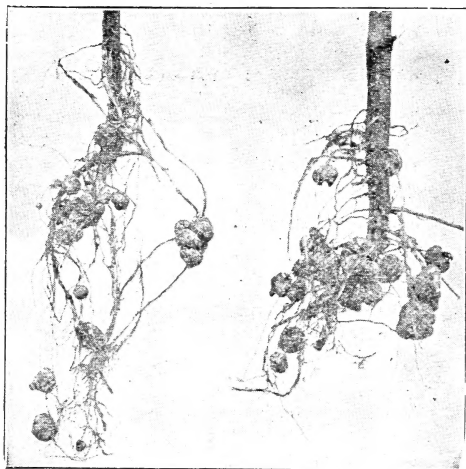
PRICE \$2.50 PER BUSHEL

NITRATE OF SODA MAKES GIANT HAY CROPS--An average increase of 2775 pounds per acre of field-cured hay was shown in 11 actual tests where Nitrate of Soda was used. Tests were made from Nova Scotia to Missouri, and only 100 pounds of Nitrate of Soda was used per acre. Compare increases with cost of this great fertilizer. Nitrate of Soda is best and cheapest Nitrogenous fertilizer with which to furnish nitrogen to plants. Price per 100, \$3.85

"GRASS GROWING FOR PROFIT,"

And other valuable information about NITRATE OF SODA and what it is doing for farmers everywhere will be mailed free to farmers on application. Send address on post card.

TO MAKE AN EARLIER AND LARGER CROP OF
BEANS -- PEAS -- ALFALFA
 AND ALL OTHER LEGUMES



You should inoculate the seed at time of planting. Many of our customers secured big results in their crops and will do so again this year by inoculating all their legume seed with

FARMOGERM
SEED AND SOIL INOCULATION

Endorsed by Farmers and Experiment
 Stations Everywhere

This preparation has been on the market for a long time and we recommend it to our customers as being perfectly reliable and highly profitable to use. It comes in bottles ready for use for any of the legumes.

The Nitrogen on Bean Roots which increases the crop and greatly enriches the soil. Produced by Farmogerm at a fraction of the cost of chemical fertilizers

SEND FOR FULL PARTICULARS

5 ACRE SIZE \$9.00

1 ACRE SIZE \$2.00

GARDEN SIZE 50c

Greater yields of Peas and Beans for canning purposes are assured by the use of Farmogerm inoculation. These crops will also command higher prices when inoculated because the yield is much richer and better filled out. Every trucker should use inoculations without fail when planting peas and beans for the cannery.

WINTER VETCH (Hairy Vetch), (sometimes called Sand Vetch). (*Vicia Villosa*). The great Drought resister and Hay Producer. The Winter Vetch has been found adapted to nearly all parts of the United States. For Drought resistance it is the best of the vetches as it withstands the severe cold and is rarely frozen, even in the Northmost states. This makes it especially valuable for mulching or winter covering as well as for a green manure crop.

FEEDING. The Winter Vetch may be cured as Hay or used as a soily crop. For Soiling purposes a succession of crops can be maintained by sowing at various dates where the winters are mild which can be used as a green feed all through the autumn and early winter, and as late as June in the summer and sometimes later.

CULTIVATION. This Vetch gives the best results on well-cultivated and drained soils. Sow in drills or broadcasted at from 25 to 40 pounds to the acre.

For Hay Purposes sow with one bushel of Rye, Oats or Wheat.

Some farmers use only a peck or less of grain and farmers should use every discretion based upon results.

New York State farmers should sow before September 15th, for the best results. When desirable to delay the maturing in a full sown crop it may be pastured quite late in the spring.

In soil adapted to Clovers and Peas or other legume crops it will produce the Vetch with ease and abundance. Price on application.

75 BU. TO ACRE AND 36 LBS. PER MEASURED BU.

Quick growing, early maturing variety of large grained oats that yields 75 bushels per acre and 40 pounds per measured bushel? Heads 8 to 12 inches long. This is what we offer you in our

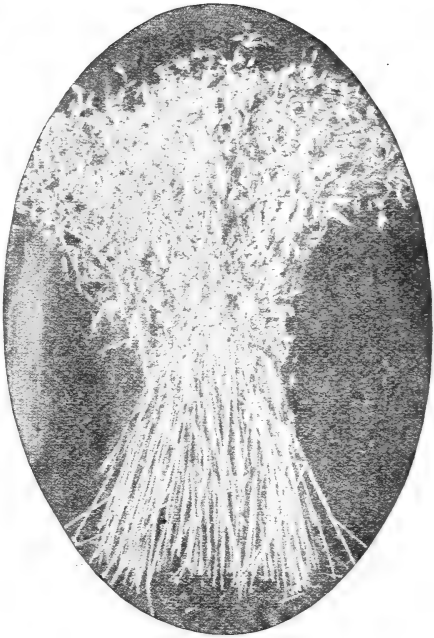
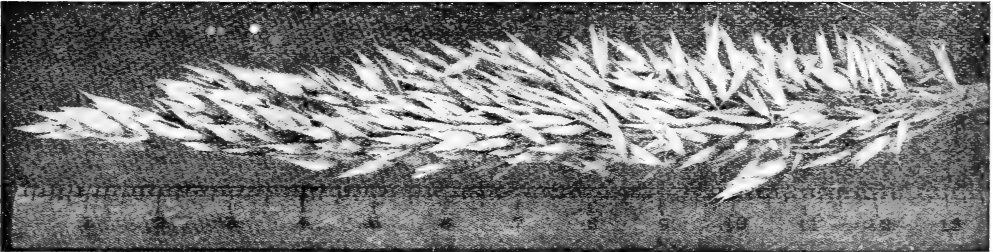
CANADA CLUSTER OATS

They have been weighed in the balance and not found wanting. The kernels are large and plump and under favorable conditions very heavy. The straw is from 4 to 5 feet tall and many heads 8 to 11 inches. They stand up extra well and have plump meats.

This wonderful variety was imported by us some years ago and has proved itself to be the most favorable and best of all the sorts we have introduced in recent years, and in fact, we place the Canada Cluster Oats at the head of all oats for genuine money value to the farmer.

The great root development is one of the many characteristics which enables the plant to resist drought better than any other variety. The straw is coarse and noted for its stiffness and power to withstand lodging. Last year the crop of Canada Cluster was an extremely good one considering the season, which was a very unfavorable one for oats.

Price, \$1.50

**EARLY DENMARK SEED OATS**

Early Denmark Oats was originated in Denmark, which owing to its geographical location is able to produce the hardest seed-grain in the world.

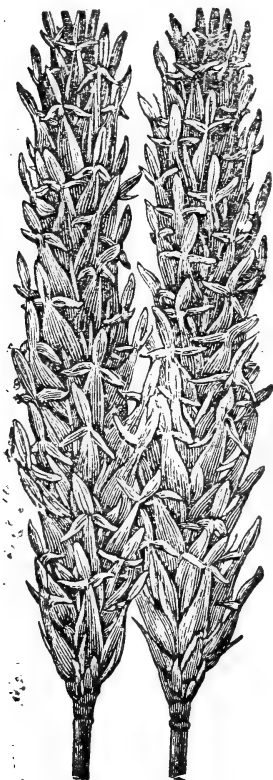
This particular variety of Oats is used largely in the manufacture of Oat Meal on account of its very large, plump White Kernel and exceedingly thin hull, which commends it for this purpose. This also recommends it as one of the finest and best Oats for all practical purposes.

Height of straw about 40 inches and grows enormous quantities to the acre in Denmark. In Finland, where the summers are short, this variety of Oats meets with an enormous demand on account of its earliness.

We have only a few of these Oats, which were imported direct from our grower in Denmark. These Oats we offer in small quantities for testing purposes only. We shall be specially interested in watching results. Price per lb. 25c, ¼ bu. \$2.00; ½ bu. \$3.00, 1 bu. \$5.00.

SPELTZ

FACTS ABOUT SPELTZ. It is the greatest Drouth Resister of all grain crops grown; it thrives on poor land, on stony ground, in the forest regions, in the prairie deserts. It makes a sure crop with almost any condition of soil, season or climate and endures a great deal of frost. It is not readily damaged by harvest rains; is not susceptible to rust or smuts; yields more than wheat, oats or barley, and is more nutritious than either. Stock like it. If own for hay crop it is better than the best timothy hay. It fattens all kinds of stock that eat it and is the earliest of all small grain to ripen. Weighs 30 lbs. to bu.; sow 2 bu. to the acre. Price \$1.50 per bu.



Beardless Barley

TWO-ROWED BARLEY

This Barley is greatly esteemed by our New York State farmers, who are unanimous that it is the best adapted to our soils and seasons and very popular for brewing. It is always in good demand and at excellent prices. We offer Two-Row Barley for seed purposes which has been carefully re-cleaned and which will produce good, clean barley and command a higher price in the market. It is an early variety, maturing in eighty to ninety days from time of sowing, and is adapted to all kinds of soil and climate; is very strong strawed, stools well, and bears large and well filled heads of plump grain. Another important factor is its nice and bright color. It is always in good demand by the brewers and commands the highest market price. A good malting barley always sells for at least 10 to 15 cents more than discolored and which can only be used for feeding purposes. Price, \$2 per bu.

BEARDLESS BARLEY

This is a six-rowed Barley and, as the name indicates, without beards, which is the most valuable improvement ever made on barley. It is a vigorous grower, producing strong, short straw and heavy, well filled heads. Its earliness is one of the most important features, as it can be cut and put out of the way before the wheat and oat crop is harvested. On good land it has produced 80 to 90 bushels per acre. In regard to soil, it is not particular, as a good crop of Beardless Barley can be raised on land too poor to produce a crop of wheat or oats, and equally good for feeding stock, therefore always bringing the highest market price. Ever since this grand new Barley was introduced, there has been such a demand for it that we were always short in supplying our trade. \$2 per bu.

WHAT LAND LIME WILL DO

1. It makes plant food available.
2. It binds and holds nitrogen to the soil.
3. It binds together light and sandy soils.
4. It assists in the draining of wet soil.
5. It loosens up the clays and sweetens sour soils.
6. It increases the size of your crops.

IT'S THE BEST FOR ALFALFA

There is probably no other crop which shows more remarkable benefits from the use of lime. This is a crop to which the enterprising farmer is devoting a large share of his attention, because of its extraordinary food value. For example, the dairymen claim that feeding a ton of Alfalfa will produce more milk than a ton of hay.

U. S. DEPARTMENT OF AGRICULTURE BUREAU OF PLANT INDUSTRY NOTICE

Office of Chief of Bureau

In the analysis of seed, attention is called to the fact that the Department of Agriculture cannot give specific information as to whether a certain kind of weed seed found present is likely to be injurious or not. It may, however, be laid down as a safe rule not to plant commercial seeds containing dodder, Canadian thistle, quack-grass, or wild carrot. If the aggregate number of other foreign seeds does not exceed 1 or 2 per cent, it is probably as clean a sample as can ordinarily be obtained in commercial practice.

Farmers are especially urged to familiarize themselves with the practical literature. The following publications on this subject are available:

Farmers' Bulletin No. 28, Weeds; and How to Kill Them.

Farmers' Bulletin No. 194, Alfalfa Seed.

Applications for Farmers' Bulletins should be addressed to The Secretary of Agriculture, Washington, D. C.

Washington, D. C.

Corn or Stalks?

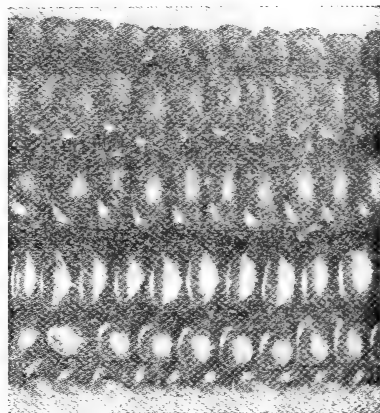
If You Want Corn, You Must Plant

EBELING'S BLOOD RED

The earliest dent corn, early as the Pride of the North, as early as the Flint varieties.

This is an extra early maturing variety of corn and is very prolific. While it is not handsome in color, it is one of the most nutritious varieties there is grown. It is a variety of corn that stock like, and one bushel will go as far as $1\frac{1}{2}$ of any other white or yellow dent varieties.

Price \$2.50 per Bushel



A photograph of a field of Eureka Ensilage Corn grown by Seeber Bros., Hastings, N. Y.

Mr. F. H. Ebeling,
Dear Sir:

At your request we are mailing you one of the photos of our field of Eureka Ensilage Corn. We purchased one peck of this corn of you last year and it grew 24 tons. It averaged 16 feet in height and some stalks were 18, and it is the most prolific grower we ever saw. We have two bushels planted this season and if it does as well as last we will have it photographed and will be pleased to mail you some of them and if you see fit to have you catalogue it.

Yours very truly, SEEBER BROS., Hastings, N. Y.

I planted three acres of your Eureka Corn in 1912, which averaged 14 feet in height and the seed was the best I ever planted.

F. E. STREETER, Hamilton, N. Y.

January 15, 1913.

Your Eureka Corn made a tremendous crop for me last season. Practically all of the seed germinated, and made a vigorous growth right from the start.

Yours very truly, J. GRANT MORSE, Laurel Farm, Hamilton, N. Y.

January 10, 1913.

I had two acres of Eureka Corn season of 1912 and harvested and put into my silo about forty tons. I am well pleased with it and will use Eureka this season, 1913.

W. B. SANBORN, Hamilton, N. Y.

EXTRA RE-CLEANED GRASS AND CLOVER SEED

Nothing is more important to the farmer than that the grass seed he sows should be pure and clean. The seed should also be plump, heavy and well ripened, so as to insure a good stand. First-class, thoroughly re-cleaned seed, while considerably more costly in the first place, is really much cheaper in the end than the light, chaffy grades generally sold at much lower prices—even should the latter be free from weed seeds. Heavy, plump seed, germinating better, will produce a much greater number of strong plants.

We handle but one grade—that is the very **BEST** which can be obtained from any source. At pound prices, where so stated, we send grass seed by mail, postpaid. In larger quantities the prices are for seed to be sent by express or freight (sacks included), at purchaser's expense. Where large quantities are desired or **Special Mixtures** wanted for different soils, we should be pleased to advise as to the proper varieties.

Prices on grass seed fluctuate. Write for prices on large quantities.

GRASSES

ALFALFA, OR LUCERNE. (*Medicago sativa*). It strongly resembles clover in habit of growth and feeding value, but withstands drought much better. It is a perennial plant on well-drained soils, so that when once established, it will continue to produce large crops for twenty years when properly cared for, and on some of the rich western prairies yields four to five large cuttings in a single season. It must be cut every time it comes into bloom, and not allowed to produce seed if permanence is desired. The plant is quite hardy, but will not succeed on low wet soils. Sow from 20 to 35 lbs. per acre. Per lb., 40 cts., postpaid. By express or freight: 30 cts. per lb.; 10 lbs. at 28 cts. per lb.



Alfalfa in parts of the Eastern States has failed to establish itself, and this, we understand, has been owing to the fact that in many cases the seed has been sown on soil not suited to the crop. William Jasper Spillman, Agrostologist of the United States Department of Agriculture, in the Year-Book for 1907, states: "Generally speaking, four conditions are necessary for the success of Alfalfa: (1) The land must be rich, or must be made rich if not already so. (2) Must be rendered alkaline in some

manner, preferably by the application of some form of lime. (3) It must be well inoculated by the germs required by the Alfalfa plant. (4) At least in the northern sections of the Eastern States the seed should be sown on well prepared land in summer—certainly before September 1st. Farther south the time of seeding is later—in the fall or early spring. Of course, there are localities where Alfalfa can be grown without all these condition and precautions."

INOCULATION of Alfalfa seed is absolutely necessary for the best results of these seed—see page 8.

ORCHARD GRASS. (*Dactylis glomerata*). This is one of the most desirable pasture grasses for stock, and also for producing large crops of hay. It succeeds well in quite shady places, hence the name of Orchard Grass. Choicest re-cleaned seed, 14 lbs. to the legal bushel—but our seed is heavier; 3 bushels to the acre. Per lb., 40 cts., postpaid; per bushel of 14 lbs., about \$3.00.

TIMOTHY. (*Phleum pratense*). Of the easiest cultivation and with us is usually sown in connection with winter grain in the fall, to which a seeding of clover is added early in the spring. 45 lbs. to the bushel; from 12 to 16 to the acre. Per lb., 35 cts., postpaid; price per bushel about \$4.00.

KENTUCKY BLUE GRASS. As is well known, this is the grass for which the State of Kentucky is famous and frequently in some sections of the country it is used in making lawns, although it is preeminently a pasture grass. When Kentucky Blue Grass is used for lawn purposes, the seed is generally sown at the rate of two and one-half to three and one-half bushels to the acre, and if White Dutch Clover is desired, seed should be added at the rate of one-half pound to one bushel of grass seed. Kentucky Blue Grass thrives best in well-drained or limestone soils. Legal weight, fourteen pounds to the bushel, and for pasturage it is customary to sow two and one-half bushels to the acre. Our re-cleaned seed weighs 20 pounds per bushel, and hence less than two bushels are required per acre. Per lb., 50 cts., postpaid; per bushel of about 20 lbs., \$7.25.

ENGLISH RYE GRASS. (*Lolium perenne*). This makes a quick growth very early in spring, and is adapted for cool, moist locations, recommended for fall seeding on Bermuda-grass lawns in the South, giving them a bright green appearance all winter. 24 lbs. to the bushel; 3 bushels to the acre. Per lb., 25 cts., postpaid; per bushel of 24 lbs., \$2.75.

ITALIAN RYE. (*Lolium italicum*). This is distinct from the preceding, being of much larger and stronger growth, with large broad glossy-green blades. It succeeds best in moist, fertile soils. About 20 lbs. to the bushel; 3 bushels to the acre. Per lb., 25 cts., by mail, postpaid; per bushel, \$2.50.

RED TOP OR HERD GRASS. (*Agrostis vulgaris*). It is a most valuable addition to sow with timothy and clover to form a close sward for pasturage. About 32 lbs. to the bushel; 1 bushel to the acre; for lawns, 3 bushels to the acre. Per lb., 30c., postpaid; per bushel of 32 lbs., about \$5.00.

CRESTED DOGSTAIL. (*Cynosurus cristatus*). A valuable addition for lawn grasses which require close cutting and an ability to resist tramping, as in golf links, etc. 21 lbs. to the legal bushel; 1 to 2 bushels to the acre. Per lb., 50 cts., postpaid; per bushel of 25 lbs., \$8.75.

CREeping BENT. (*Agrostis stolonifera*). Especially adapted to moist lands and those which are occasionally overflowed. Its peculiar habit of branching underneath to the surface enables it to resist to the greatest extent tramping and pasturage. About 20 lbs. to the bushel; 2 bushels to the acre. Per lb., 45 cts., by mail, postpaid; per bushel of 20 lbs., \$7.75.

HARD FESCUE. (*Festuca durinacula*). An excellent pasturage or lawn grass, succeeding well in dry or shady locations. About 12 lbs. to the bushel; 2½ bushels to the acre. Per lb., 40 cts., postpaid; per bushel of 12 lbs., \$4.00.

SHEEP'S FESCUE. (*Festuca ovina*). Slender blades growing in close, compact clumps and from six to ten inches in height. About 12 lbs. to the bushel; 2½ bushels to the acre. Per lb., 40 cts., postpaid; per bushel of 12 lbs., \$4.50.

MEADOW FESCUE. (*Festuca pratensis*). A fine pasture grass. About 22 lbs. to the bushel; 2 bushels to the acre. Per lb., 60 cts., postpaid; per bushel of 22 lbs., about \$9.50.

TALL MEADOW WOAT. (*Avena elatior*). A very valuable pasture grass. It is especially adapted for rather dry, light soils. About 10 lbs. to the bushel; 4 to 5 bushels to the acre. Per lb., 40 cts., postpaid; per bushel of 10 lbs., \$2.75.

WOOD MEADOW. (*Poa nemoralis*). An excellent pasture or lawn grass, desirable for planting under trees on the lawn. 14 lbs. to the bushel; 2 bushels to the acre. Per lb., 60 cts., by mail, postpaid. By express: \$6.00 per bushel.

ROUGH-STALKED MEADOW GRASS. (*Poa trivialis*). A valuable grass for moist soils or meadows, making excellent pasturage or very nutritious hay. About 14 lbs. to the bushel; 3½ lbs. to the acre. Per lb., 55 cts., postpaid. By express: 45 cts. per lb.; per bushel of 14 lbs., \$7.50.

MEADOW FOXTAIL. (*Alopecurus pratensis*). Closely resembles Timothy in growth, but has a soft, feathery head. It is a valuable pasture grass by reason of its rapid growth. About 7 lbs. to the bushel; 3 bushels to the acre. Per lb., 55 cts., postpaid; per bushel of 7 lbs., \$2.85.

HUNGARIAN BROME, OR Awnless BROME. (*Bromus inermis*). This closely resembles Schroederi, or Rescue Grass, but is much more leafy, finer stalked, and more stiffly erect; its seeds are more numerous and in closer heads. It makes quick, strong growth, providing splendid pasturage or hay. It sprouts out into fresh growth very quickly after being mown, and we think it is the ideal grass for hot, dry regions and thin soils. 14 lbs. to the bushel; about 35 to 40 lbs. to the acre. Per lb., 35 cts., postpaid; per bushel, \$2.85.

HUNGARIAN MILLET. (*Panicum Germanicum*). Seed can be sown early in July to produce a good crop of hay. To make the best hay it should be cut before the seeds become hard. 48 lbs. to the bushel; 1 bushel to the acre. Per bushel, about \$2.00.

GOLDEN OR GERMAN MILLET. This is the favorite variety for planting in good land to produce a large crop of hay or forage during the summer months; of very strong growth. 50 lbs. to the bushel; 1 bushel to the acre. Tennessee grown. Per bushel, about \$2.25.

CLOVERS

ALSIKE OR HYBRID CLOVER. (*Trifolium hybridum*). The plant is perennial and very hardy, thriving equally well on wet or

dry soils. The stems are more slender and much taller than those of the Red Medium Clover, and thus much better adapted for growing with Timothy to produce a high grade of mixed hay. Sow at rate of 10 to 20 lbs. to the acre. Per lb., 40 cts., postpaid. By express or freight: per lb., 30 cts.; 10 lbs. or more at 28 cts. per lb.

RED MEDIUM. This is the common Red Clover so largely grown. We shall be pleased to quote prices at any time.

MAMMOTH OR PEA-VINE. This grows much taller than Red Medium, with larger, leafier stalks, and large, slightly, pointed leaflets. Prices quoted on application.

By mail, either Mammoth or Red Medium at 45 cts. per lb., or 3 lbs. for \$1.25. Write for price per bushel.

WHITE DUTCH CLOVER. (*Trifolium repens*). This thrives in almost every soil and climate, succeeding equally well on heavy, moist land and thin, dry hillsides. It is of low-creeping growth and for green, velvety lawns. Per lb., 55 cts., postpaid. By express: 45 cts. per lb.

SAIN FOIN. (*Ononis sativa*). This is a very valuable perennial plant for the Southern States; it is quite hardy after it becomes well established. It has strong, deeply bunching roots, and will succeed in very dry soils, sand and even in gravel. Sow 2 to 3 bushels per acre. Bushel weighs about 24 lbs. By mail, 25 cts. per lb. By express or freight, 15 cts. per lb.; 10 lbs. or more at 12 cts. per lb.

BOKHARA. (*Melilotus alba*). This slightly resembles Alfalfa in growth, but is much taller, with leafier and stiffer stems. It frequently grows five to six feet in height and branches freely, with slender spires of small, fragrant, white flowers, which afford an excellent food for bees. By mail, 40 cts. per lb. By express or freight, 30 cts. per lb.; 10 lbs. or more at 28 cts. per lb.

CRIMSON OR ITALIAN CLOVER. (*Trifolium incarnatum*). An annual variety providing large crops of green forage, or if cut while in bloom will make excellent hay. It should not be allowed to grow too old, or the seed-heads are liable to cause hair-balls to form in the animals' stomachs, to their great injury. It is for use as a green manure and cover crops that this plant is most highly esteemed. It improves poor lands and restores to fertility those worn by excessive culture. Seed should be sown early in August or September so that the plants will become well established before winter. It is especially valuable for sowing amongst corn or other crops at time of the last cultivation. Sow at rate of 15 lbs. to the acre. Per lb., 30 cts., or 3 lbs. for 85 cts.; by mail, postpaid. Write for prices by the bushel.

The prices of Grass and Clover Seeds fluctuate from time to time, according to the market.

INOCULATION of these Clover Seeds means a stronger catch and better yield—see page 8.

FOR DESTROYING DODDER IN ALFALFA FIELD

Use a spray consisting of four parts of water, one part crude carbolic acid.

Mix thoroughly in hot water.

Spray this on the infected spots with an ordinary Paris green sprayer.

If necessary spray the second time.

This will kill the dodder and save about 75 per cent. of the growing Alfalfa.

I am indebted to J. C. Osborn, Port Byron, N. Y., for this valuable discovery. F. H. E.



Medal awarded to
F. H. EBELING
for his choice col-
lection of seeds
at St. Louis by
the Louisiana
Purchase Exposition.



THE PARCELS POST.

We are prepared to send by Parcels Post any orders that come within the requirements of 11 pounds or under. This will include a multitude of articles that are used by our Gardeners, Farmers and Poultrymen. We will send promptly by return mail any orders that you may favor us with.

This is a great step forward in the interests of the consumer and we are at your service in any way that will best serve your interests.

ERRORS We sometimes make them, so does everyone! We will CHEERFULLY correct ours if you will write us. How can we correct them if you DON'T? Try to write to us good naturedly, but if you can't, write to us anyway. Don't kick to anyone else, or nurse a grievance. If we have ever made an error or offended you, it's only simple justice to us to let us know. We correct our mistakes gladly. If our methods don't appeal to you, help us with criticisms from your point of view. It is inevitable that in business letters hastily written should sometimes rub the wrong way. We may be awkward in expressing ourselves, but our goods are honestly sold and we aim to give everyone a square deal.

The reason men succeed who mind their own business is because they have so little competition.

AGRICULTURE is the safeguard, not only of National Wealth, but of National Character.—J. J. HILL.

Stealing from your great-grandchildren—that's what those men are doing who do not put as much into their soils—theirs temporarily—as they have taken out.—COUNTRY GENTLEMAN.

EUREKA ENSILAGE CORN.

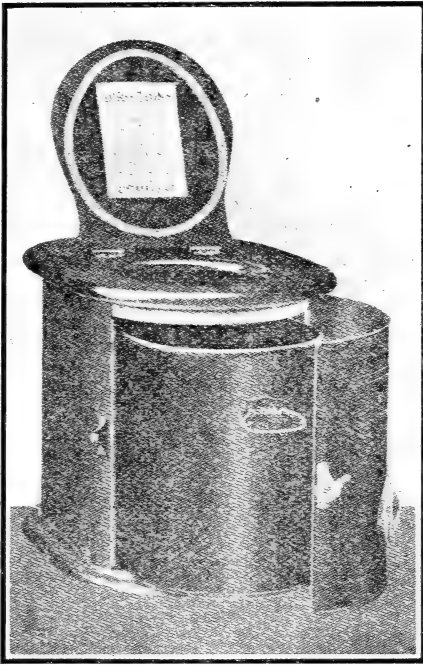
Please read carefully the page devoted to our Eureka Ensilage Corn. We have secured a carload of this variety and when same is exhausted will be unable to secure more owing to its scarcity. Some unscrupulous dealers in the past have substituted the ordinary Southern White or Horse-Tooth variety for the genuine Eureka Ensilage Corn, and we wish to warn our farmers against such methods. This counterfeit variety can be bought for less money, but is dear as a gift.

SEED POTATOES. The past season has doubly emphasized the need of strong and vigorous seed stock. In order to meet this need we have secured a carlot of choice Maine Seed Potatoes grown on the best potato land in the world, and justly famed over the whole United States for its true to name, healthy and vigorous tubers, able to withstand blight, bugs and the diseases that the potato family are heir to. With such seed there is a guarantee of success and our growers can insure themselves against loss by planting these hardy Maine grown seed potatoes.

We offer only "True to Name" and well known varieties. See page 31.

SEED OATS. We call your special attention to our new introduction The Winnipeg Cluster Seed Oats which are offered for the first time to our farmers in this vicinity. These Seed Oats are the result of long years of patient and painstaking experimental work by men "Who Know Oats," and who breed seed grain with the same care and intelligence employed by the best breeders of Holsteins or Jerseys. The virgin soil of the great Alberta country of the Canadian Northwest is the birthplace of these marvelous Winnipeg Cluster Oats. This seed is absolutely clean for the reason that the soil is as yet free from foul weeds. We feel confident that our farmers will gladly avail themselves of this remarkable variety and encourage us to greater efforts along these lines. See further description on page 4.

The Farmer's Sanitary Chemical Closet



The "Good Health" System of Modern Sanitation

For use where no water works or sewerage system is available

FOR

Homes
Schools
Hotels
Summer Cottages
Tenting Grounds
Etc.

Can be set up in any convenient place in the house or wherever used connected with chimney or any run or stove pipe where a good draft is assured.

Takes up about the same space as the ordinary flush water closet, oval in shape, has no corners.

The seat is made of birch or maple with closely fitting cover with rubber cushion which takes up any jar or noise, nickel plated or oxidized trimmings, splendidly finished, strong and well built and will last for years.

Immediately back of the lid an opening is provided to which the draft pipe is attached.

No Danger From Typhoid

The Chemicals Used Destroy All Typhoid Bacillus Inside of 5 Minutes

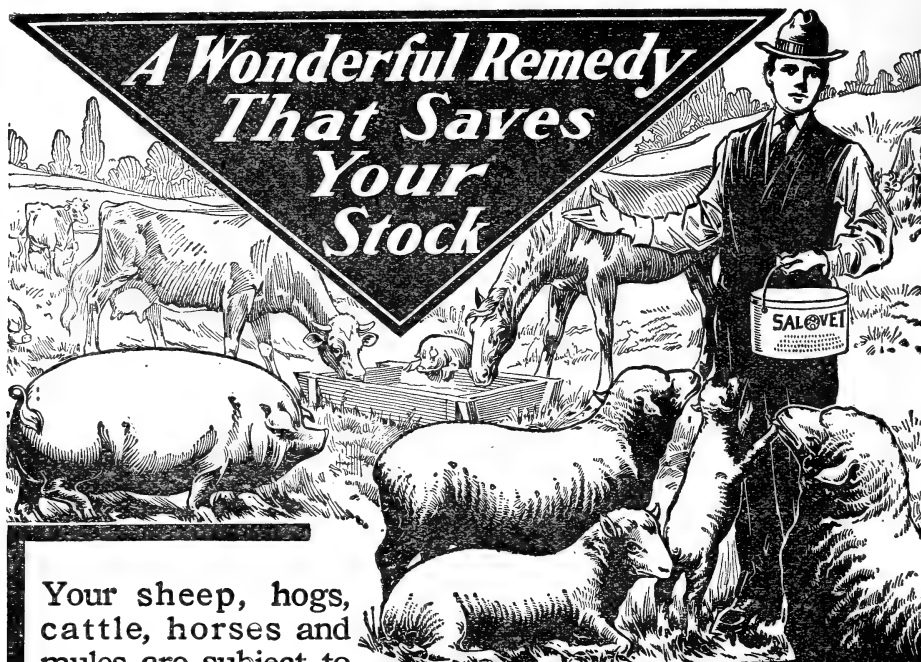
About one pint of chemical and eight pints of water are put into the tank and the closet is ready for use.

IT IS ENTIRELY ODORLESS when in use. When the tank is about two-thirds full it is emptied and recharged as before. A small portion of the chemical will destroy all germ life, rendering the excreta absolutely harmless in spreading sickness.

It is worth many times its cost in the winter months and stormy weather

What does it mean in the winter months or in stormy weather to have a comfortable toilet available night or day.

ABOLISH THAT UNSIGHTLY OUT HOUSE. inconvenient and health destroying. Protect yourself and your family, the privacy it affords is only one of the innumerable advantages, it's a boon to the farmer. Price \$20.00.



Your sheep, hogs, cattle, horses and mules are subject to deadly attacks of worms. These ravenous pests multiply by the millions, starve your stock, keep them poor, weak, and out of condition.

(59)

TRADE MARK
SAL-VET
REG. U.S. PAT. OFF.

The Great Worm Destroyer and Conditioner

is a medicated Stock Salt, no drenching, no dosing—just put a supply of it where your stock can run to it freely and they will doctor themselves. It keeps them worm-free and healthy.

Every stock feeder and breeder knows that worms cut down his profits when cholera and other stock diseases break out in his neighborhood. Worm infested stock are always first attacked.

SAL-VET will positively rid every animal on your place of indigestion, worms, prevent disease and keep them healthy and vigorous.

Often your stock eats well, but do not put on flesh. This is a sure sign of worms. Use SAL-VET and watch them put on flesh. Especially is this true when fed to Hogs—when to make money they must be fattened quickly.

Every animal that eats grain and fodder or grass takes into it's system worm germs. No animal is immune (EXCEPT SAL-VET FED ANIMALS). Thousands have used it and are loud in its praise.

SAL-VET is a money-maker for every one who feeds it.

Follow feeding directions carefully. Don't feed too much or too little.

Each 10-lb. Drum.....	\$.75
Each 20-lb. Drum.....	1.25
Each 40-lb. Drum.....	2.25
Each 100-lb. Keg.....	5.00
Each 200-lb. Bbl.....	9.00
Each 300-lb. Bbl.....	13.00

Read this testimonial, then write to them if you doubt the facts as set forth

CLOVERDALE FARM

(Established 1882)

Duroc Jersey Hogs

HOME OF THE BIG ONES

Polled Durham Cattle

The S. R. Feil Co., Cleveland, Ohio.

Gentlemen—We have used "Sal-Vet" for two years, and are well pleased with results. At the Iowa State Fair at Des Moines, August, 1912, we showed 12 pigs, under one year of age, which we sold for \$1,320; for two of these we received \$500. The larger one received "Sal-Vet" regularly from birth, and weighed 560 pounds; the smaller one was not given "Sal-Vet" and weighed 270 pounds. The larger one sold for \$150; the smaller one for \$50.

These pigs are registered Durocs and were farrowed September 13, 1911.

S. W. STEWART & SON, Kennard, Nebr.

Nov. 25th, 1912.
Mr. F. H. Ebeling,
Syracuse, N. Y.
Dear Sir:

The Early Medium Green Soy Beans have proven to be all that I expected and even more. I planted a large field in drills and cultivated them the same as corn. These produced a fine crop, which were harvested and stacked up the same as Beans. These are still out in the field, where they have been left to cure and dry for seed purposes. I shall use the straw for feeding, which we consider as valuable as hay.

A large quantity of the Early Medium Green Soy Beans was planted with my Ensilage Corn and harvested with it and put in the silo. I consider Soy Beans a valuable addition to silage as it produces a higher grade than can be produced in any other way.

I would recommend these Beans to all dairymen for their money value in increasing the flow of milk and keeping stock in fine, healthy condition. Yours very truly,

CHARLES M. CROUSE



The above is a photograph of a field of **EARLY MEDIUM GREEN SOY BEANS**, grown on "The David Harum Farm," Homer, N. Y., owned by Mr. Charles M. Crouse of this city. Mr. Crouse is one of our progressive citizens, and his fields of Soy Beans and Ideal Mangel Beets are a source of great pleasure and profit.

MASON FILTER PAD PAIL

All consumers of milk are vitally interested in its purity. For the first time in the history of our business we are able to provide a remedy that will eliminate 70% of the impurities; thereby increasing its purity.

The following exhaustive test, made by Prof. H. C. Ward of the Department of Bacteriology of Syracuse University, will better explain than anything that might be said in a general way. These tests are accurate and absolutely reliable, and I would recommend the use of the **MASON FILTER PAD PAIL** to all who would produce pure milk.

Sample pails are on exhibition at our store.

Syracuse, N. Y., May 24, 1912.

Mr. Daniel Mason, Syracuse, N. Y.:

My Dear Mr. Mason—In order to accurately test the Mason "Filter Pad Pail" for clean milking, I have made the following examinations of nine samples of milk from five dairies.

The dairies visited were first-class and using modern methods. Each sample tested was the mixed product of a number of cows, the milking was done by the same person, using your pail, together with the pails common to each dairy.

All samples were immediately packed in ice and taken to my laboratory, where the bacteriological counts were made on the following series:

FIRST SERIES

Ordinary Pail.	Mason Pail.	Advantages.
Number of Bacteria in 1 c. c. Milk.	Number of Bacteria in 1 c. c. Milk.	Number Reduced
3,200	vs. 470	85 per cent.
5,000	vs. 1,300	74 per cent.
10,000	vs. 2,000	81 per cent.
20,500	vs. 3,500	82 per cent.
11,000	vs. 2,600	76 per cent.
16,000	vs. 2,300	87 per cent.
Average.....		80 per cent.

SECOND SERIES

The conditions were the same as in the first series, except that the milk was

bottled and handled, and delivered from the milk cart as if for sale.

Ordinary Pail.	Mason Pail.	Advantages.
Number of Bacteria in 1 c. c. Milk.	Number of Bacteria in 1 c. c. Milk.	Number Reduced
21,000	vs. 6,500	70 per cent.
50,000	vs. 9,000	82 per cent.
7,800	vs. 3,000	60 per cent.
Average.....		70 per cent.

The results of these examinations demonstrate the following points of advantage:

First—The pail is so constructed that 70 per cent. of the Bacteria are kept out of the milk.

Second—It shows clearly that the aerator-cooler and strainers are not necessary.

Third—That the milk can be poured directly from your pail into can placed in cooling tanks without further exposure to the air, and bottled ready for delivery.

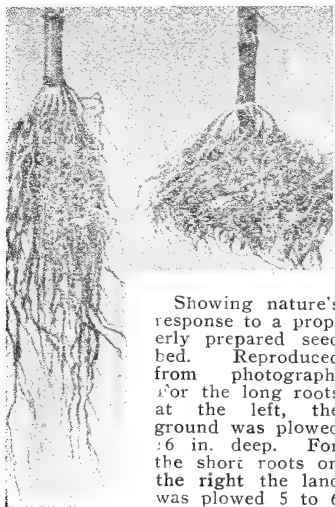
Fourth—That with the average conditions of stables milk can be raised to first-class value as judged by the milk inspectors' bacteriological examinations.

Very truly yours, H. C. WARD.

Department of Bacteriology, Syracuse University.

Full information about this Pail upon addressing F. H. Ebeling Syracuse, N. Y.

A NEW AND BETTER WAY of PLOWING



Showing nature's response to a properly prepared seed bed. Reproduced from photograph. For the long roots at the left, the ground was plowed 6 in. deep. For the short roots on the right the land was plowed 5 to 6 in. deep. The two

were less than two rods apart. The yield in the deep seed bed was 25 per cent. more than on the shallow plowed ground.

There's practically a revolution in the method of turning over the soil. The merits of the new way will appeal to all practical farmers. The only point that will keep the farmers from using it is that four horses must be employed with this plow—but the four will constitute the most profitable investment the farmer can make. The seed bed and its capacity for larger crops will be practically doubled as there will be an unlimited soil depth of the generous rooting of crops.

It is well known that soil depth is the only way to larger crops. Corn roots will penetrate to four times the depth of corn ordinarily planted. The top roots will go down thoroughly into this naturally formed depth of soil. The effect upon such crops in wet or dry weather is apparent at once.

The greater the soil depth—the greater the drainage and the ability to hold a permanent amount of moisture. Besides, the fertilizer element found in the soil is greater and more prominent than in shallow plowed ground.

Old-fashioned plowing at the same depth results in "hard pan" which decreases the water-holding capacity of the soil, retards growth of roots and checks the rise of moisture from the layers below. Deep plowing done scientifically by the

Spalding Deep Tilling Machine

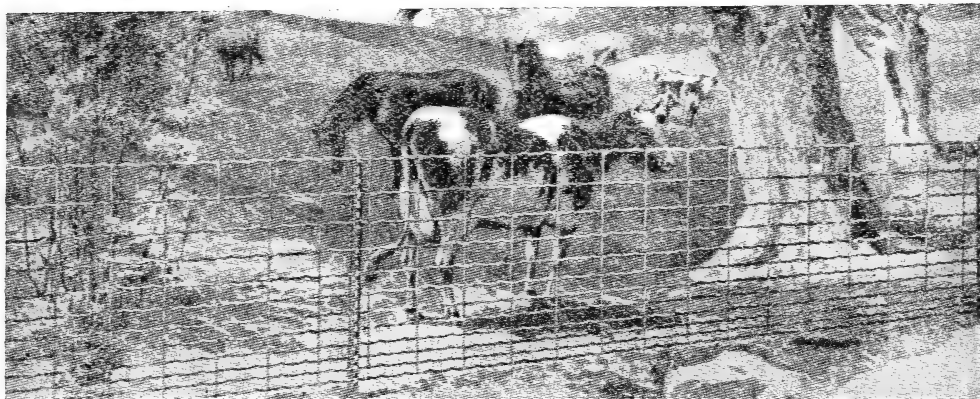
Is the only efficient method of pulverizing the soil to sufficient depth. It's the only practical means for mixing the top and bottom soils. By so doing it increases the moisture-holding capacity of the soil, admits sunlight and air, encourages growth of soil bacteria, prevents surface washing, renews so-called worn out soil, increases the yield and practically doubles the net profits.

Following are reasons why you should use the Spalding Deep Tilling Machine. It weighs 1,200 lbs.—made entirely of steel, malleable iron and gray iron. It has two disks but it makes only one furrow. It's more than a plow and harrow combined. It makes a furrow 8 to 16 inches wide and the same in depth. It will plow sod successfully. It will work in stony land. It will plow 1½ to 2½ acres per day. It will turn under and bury standing cornstalks beyond reach. It doesn't put the bottom soil on top or the top soil on the bottom—it mixes the two together.

Its draught per square inch of dirt handled is much less than that of any plow. Its wearing parts are the disks only. It's not an experiment but is backed up by an absolute guarantee.

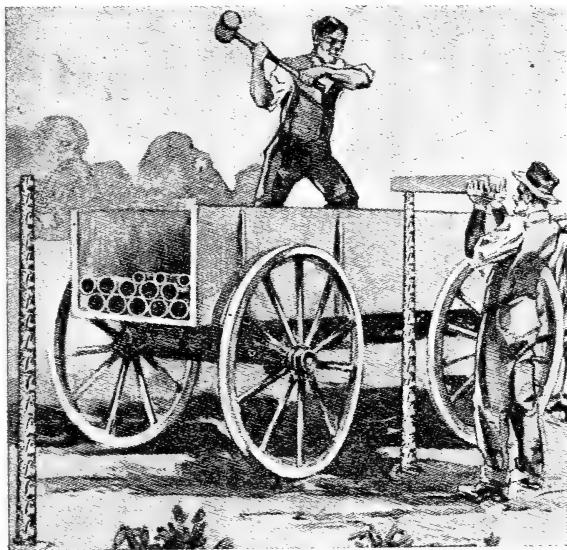


The corn stalks are buried under 12 to 16 inches of soil so deep that neither drill nor harrow can reach them.



The above illustration indicates design 1258 of American Steel Fencing, which is eminently satisfactory for general farm purposes. The close spacing at the bottom will turn Hogs, also hold Sheep, Cattle and Horses.

We carry a full line of everything in the way of STEEL FENCING for Horses, Stock, Sheep, Hogs and Poultry. Price very reasonable.



STEEL FENCE POSTS

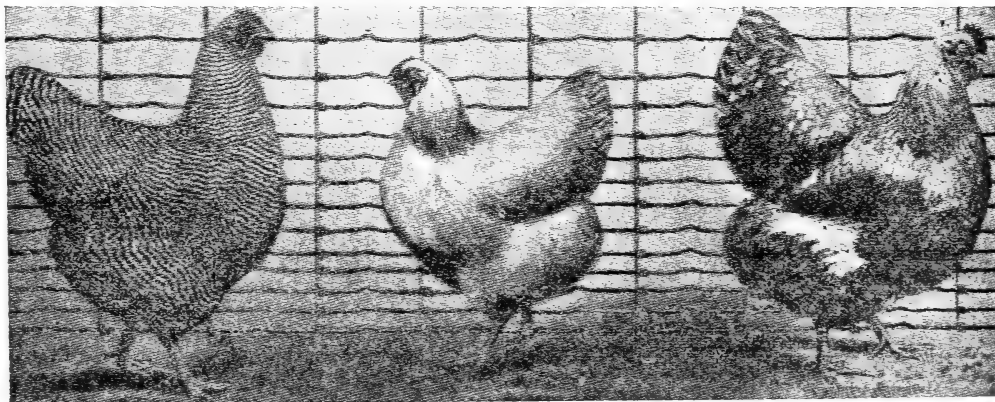
Are taking the place of wood—are permanent, durable, inexpensive.

PRICE LIST

Line Posts, 6½ ft.	\$.30
Line Posts, 7 ft. ....	.35
Corner Posts, 8 ft.	3.00
End Posts, 8 ft.	2.00
14-ft. Gate	8.00
3-ft. Single Walk Gate	3.00
4-ft. Single Walk Gate	4.00

One good method of driving American Line Posts. If ground is hard or so stony the post cannot be driven readily—use the American Ground Auger.

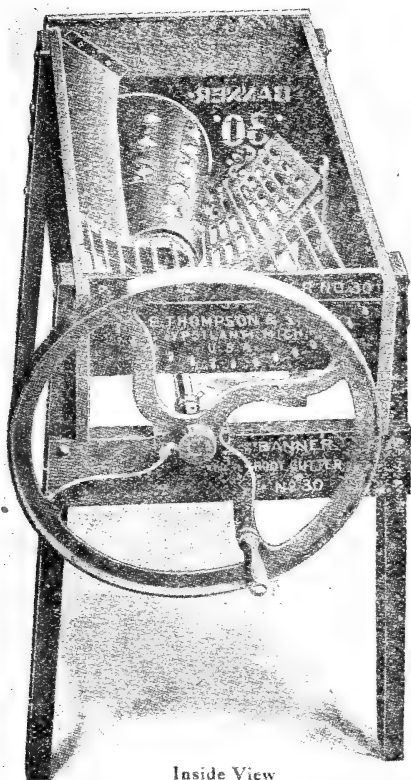
ANOTHER WONDERFUL POULTRY FENCE



There's no better fencing made for hogs, cattle, poultry or rabbits. It makes an ideal garden fencing. It's strong, thoroughly practical and more durable than netting. The light specifications are strong enough to turn stock.

This fencing comes in 8 to 15 bars, either in 6 or 12 inch stays, 20 to 50 inches high, 25c. to 45c. per rod.

New Banner "30" Root Cutter



Inside View

A glance at this New Root Cutter, showing the large capacity of the Hopper, 39 in. long, 18 in. wide and 18 in. deep at the lower or cutting end. The long drum with 30 knives attached. The gravity slant of the inside Hopper. The open bottom with iron rods and open cutting grate to allow dirt to escape without mixing with cut feed and the fact that the mangles or sugar beets, turnips, potatoes, carrots and other roots that are fed to stock can all be handled with this machine and left in the best possible shape for feeding.

2 Bushels per Minute

Does Not Crush the Feed

At 60 revolutions, the knives hit and cut the roots 1,800 times. Cut feed left in long half round slices that has made the **Banner Root Cutter** a popular machine for this work for 20 years.

Price \$18.00

THE ACME STEEL LADDER

This ladder is warranted to be of the best steel. It is suited for all inside uses. It's lighter and much easier to handle than the ordinary ladder. It never breaks nor wears out. You can add or take away from its length at any time. It's an every day ladder—the only one of its kind ever made. A lock on each joint, making it absolutely rigid and safe. With the ordinary steel ladder it is impossible to secure complete control. It's a very neat appearing ladder on the building—in fact, when it is painted in the color of the building it is not noticeable.



PURE SHEEP FERTILIZER

THE NATURAL GRASS FOOD

Try it and see the wonderful results obtained
50 lbs. \$1.50 100 lbs. \$2.50

ANALYSIS—Ammonia, 4.48 per cent;
 Available Phosphoric Acid, 1.88 per cent;
 Actual Potash, 2.39 per cent;
 Nitrogen 2.36 per cent.

THE BEST

Lawn Fertilizer in the Market.
 Free from all foul seeds. Rich
 in Plant Food. Machine Dried.

PURE GROUND BONE

100 lbs. \$2.25 50 lbs. \$1.25

These fertilizers are free from foul seed and
 a natural grass producer.

Sprayers

\$3 to \$300

For large or small orchards, market gardens, potato farms, grain, cotton, tobacco, home and garden work, poultry plants, whitewashing, cleaning, cold-water painting etc.



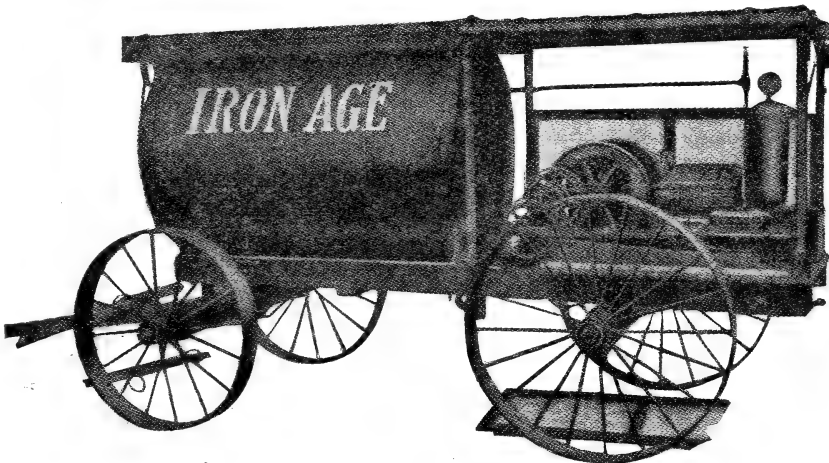
50 gallon Power Sprayer

Bucket and Knapsack Sprayers, Horizontal and Vertical Barrel Sprayers, Traction Sprayers for field crops, Power Sprayers, 50, 100, 150, 250 gal. Forty combinations.

Furnished complete or in part to build up Sprayers already in use

IRON AGE SPRAYERS

They have outside pumps, no corrosion, pleasant for handling, easy to get at. The pumps have the greatest efficiency, that is the least slippage of any pumps in use on any sprayer, this has been shown by disinterested tests. Unit sprayers, so you build bigger when necessary. Ask your dealer to show them and write for new booklet "Spraying Vines, Trees and Bushes." We also make a full line of Potato Machines, Garden Tools, etc.



250 GALLON POWER SPRAYER

Furnished with or without steel truck

200 pounds constant pressure, 6 to 8 nozzles

2-H. "Original" Engine

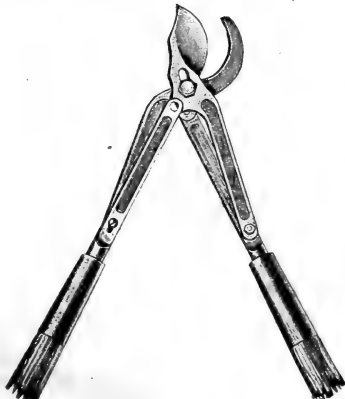
Double Acting Pump, directly connected. Chain driven agitator, Outside sediment chamber and strainer.

Tower furnished if wanted

Orchard King Pruning Shear

A Knife that will interest anyone that does Tree Trimming

No other PRUNING SHEAR will take off a live limb that is 1 3/4 or 2 inches in diameter. Ours with its COMPOUND LEVERS, DOUBLE DRAW CUT, and ROLLER BEARING, will do it so easy that it will surprise you.

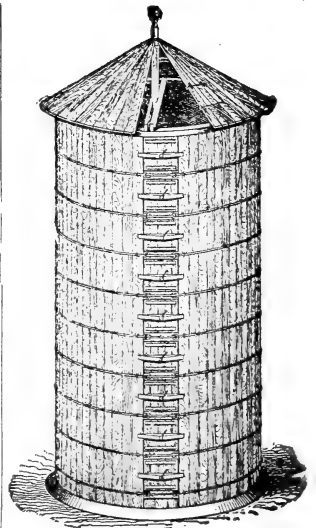


In doing work where ease makes speed, is not only saving time but conserving energy, a factor worth considering in all things at all times.

The material used is the finest that the market affords. The working parts are high carbon crucible steel, perfectly tempered.

This knife is guaranteed. Any part returned to us, charges prepaid and showing any defect will be replaced without cost.

PRICE \$3.00



The Tonawanda

STANDARD SILO

is the best and lowest priced.

Ask for catalogue

New Early Cabbage==Copenhagen Market

This superb new Cabbage created quite a sensation the past season. It is undoubtedly without a rival as the **finest large round-headed early Cabbage** in cultivation. The type is thoroughly fixed, the heads maturing all at the same time—(this being a great consideration to Market Gardeners, entailing less labor in harvesting the crop and allows the ground to be cleared at the first cutting). The heads average about eight pounds each in weight, are very solid, with small core and of fine quality. Etheridge & Clark Market Gardeners, grew some that weighed as high as 15 lbs. See their testimonial below. It matures as early as **Charleston Wakefield**, and will give a much heavier yield per acre than that popular variety. The plant is short-stemmed, the heads being produced almost on the ground level. The leaves are light green, rather small, saucer-shaped, and always tightly folded. The plants, therefore, can be set closer than is usual with varieties of smaller size.

COPENHAGEN MARKET. This is an extremely early Cabbage. It is just the kind you have been looking for. It has such unusual merit that we really wish we could devote several pages of the record reports from progressive planters. In the year ending December 31, 1911, nearly 4,000 large planters reported extraordinary yields.

COPENHAGEN MARKET has come to stay. This Cabbage is a genuine Dane—in fact, its unequalled success in Denmark is the direct reason for its importation. It is being marketed almost exclusively in the city of Copenhagen.



A TYPICAL HEAD FROM PHOTOGRAPH

Per pkg, 10c.; $\frac{1}{4}$ oz., 20c.; $\frac{1}{2}$ oz., 35c.; 1 oz., 65c.; 2 oz., \$1.00; $\frac{1}{4}$ lb., \$1.75; per lb., \$6.00.

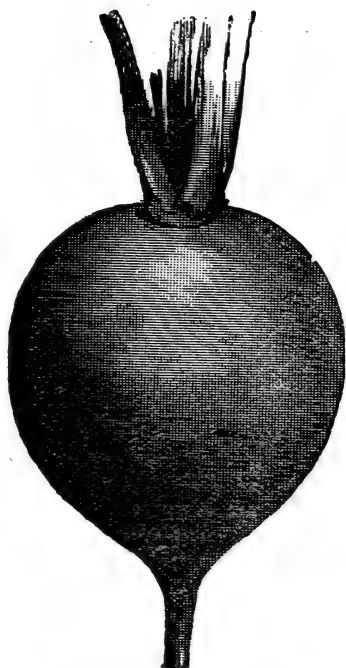
"COPENHAGEN MARKET was ready for market 65 days after setting out plants and produced a good head, but if left three weeks longer, it produces a splendid, solid, heavy head with exceptional flavoring, and showing no sign of cracking. It is sure to make an early market favorite with the trade.

"COPENHAGEN MARKET from May 1st seed, is headed. This Cabbage is a prize as well as a rarity."—H. D. Curtiss, Manlius, N. Y., July 27, 1911.

"I will plant **COPENHAGEN MARKET** next year instead of **Wakefield** as it is the best early Cabbage I ever saw."—Chas. H. Todt, R. D. No. 2, Box 56, Holyoke, Mass.

We could furnish hundreds of testimonials from gardeners and truckers who have grown the **"COPENHAGEN MARKET"** Cabbage with pleasure and much profit and they all say it is **"The Best."**

"We grew the **COPENHAGEN EARLY MARKET CABBAGE** during the season of 1912 with most remarkable results. Began cutting cabbage July 1st, weighing 15 lbs. and 2 oz. Mr. Etheridge of the firm says that the **Copenhagen Early Market** is by far the earliest, largest, most productive and profitable of all the early varieties he has ever planted, and considers it the coming variety for early market gardener's use."—Etheridge & Clark, Market Gardeners, 414 E. Colvin St., Syracuse N. Y.



DETROIT DARK RED.

Half Long Blood, an excellent half long, second early; good also for winter use

Long Blood, long, smooth and very dark red; a late variety. Our strain of this variety cannot be excelled

Golden Tankard Sugar . . . 45

Taber's Gate Post, new mangrel . . . 45

Swiss Chard, for greens, . . . 75

ASPARAGUS.

Per oz Per lb

Barr's Mammoth, very large, early . . . \$ 10 \$ 75

Palmetto, large, tender, light green . . . 10 75

Conover's Colossal, very large, . . . 10 65

Asparagus Roots of the above varieties, per 100, . . . 1 00

Special prices for quantities.

BEEET. Ruben

Crosby's Egyptian, the best for early market; as early as the original strain of Egyptian, is thicker and less inclined to push up a woody neck as it advances in growth . . . 15 1 50

Detroit Dark Red, globe shape, skin dark red; very sweet . . . 15 1 50

Bassano, globe shape, German, early, tender variety; color, light red, . . . 15 1 00

Bastian Early Blood Turnip or **Lentz**, very early red variety; not quite so flat as Bassano, . . . 15 1 25

Extra Early Egyptian, flat, one of the earliest table beets; small tops, color very dark red; flat and smooth . . . 15 1 00

Dewing's Blood Turnip, improved variety of deep blood-red; fine form and flavor . . . 15 1 00

Eclipse Blood Turnip, very early, round, smooth and dark red; very small top, and is one of the best for market, . . . 15 1 00

Edmand's Turnip, one of the very best strains for market gardeners; small top, round, handsome and very dark red. Our stock is very fine, . . . 15 1 25

Mammoth Long Red Mangrel . . . 10 40

1 00 **Yellow Mangrel** or **Intermediate** . . . 10 40

Yellow Ovoid Giant . . . 40

Yellow Globe Mangrel . . . 10 40

Vilmorin's Improved Imperial Sugar . . . 10 50

New Ideal Mangrel Beet. See page 6 . . . 15 1 00

BEANS. (Bush) Garten Bohne.

Per qt Per bu

KEENEY'S RUSTLESS WAX . . . \$ 40 \$ 7 00

HODSON WAX . . . 40 7 00

GOLDEN WAX, Improved, . . . 35 7 00

BLACK WAX, yellow pods . . . 35 7 00

DAVIS' KIDNEY WAX . . . 35 7 00

WARDWELL'S KIDNEY WAX . . . 35 7 00

GOLDEN EYED WAX . . . 35 7 00

VALENTINE WAX . . . 35 7 00

EARLY LONG YELLOW, six weeks, green pod, . . . 30 5 00

DWARF HORTICULTURAL . . . 30 6 00

IMPROVED VALENTINE . . . 30 5 00

MOHAWK, one of the earliest . . . 30 5 00

BOSTON YELLOW EYE . . . 30 5 00

REFUGEE PICKLING BEAN . . . 20 6 00

WHITE KIDNEY . . . 20 4 00

WHITE MARROW . . . 20 4 00

WHITE IMPERIAL . . . 20 4 00

BEANS. (Pole or runners).

Per qt Per bu

DREER'S CLUSTER GOLDEN WAX . . . \$ 30 \$ 8 00

BLACK WAX . . . 30 8 00

LAZY WIFE, pole, . . . 30 8 00

HENDERSON BUSH LIMA, large, . . . 30 8 00

BURPEE'S IMPROVED BUSH LIMA . . . 50 10 00

BURPEE'S BUSH LIMA . . . 30 9 00

EARLY JERSEY LIMA, new . . . 30 8 00

KING OF THE GARDEN LIMA . . . 30 7 00

CRANBERRY, SPECKLED or **WREN'S EGG** . . . 30 6 00

DUTCH CASE KNIFE, white flat, . . . 30 6 00

SCARLET RUNNER . . . 40 8 00

WHITE DUTCH RUNNER . . . 40 6 00

ONONDAGA POLE . . . 30 6 00

BROAD WINDSOR . . . 50

INOCULATE these Beans with Farmogerm to secure full pods and rich flavor, see page 8.

BROCCOLI.

Per oz Per lb

EARLY, large (French) . . . \$ 1 00

SOUTH HAMPTON . . . 1 00

BRUSSELS SPROUTS.

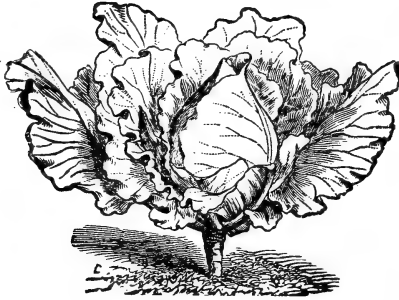
DWARF, Fine French, . . . 20 2 00

BORECOLE or **KALE.**

Per oz Per lb

GREEN CURLED or **KALE** . . . 15 \$ 1 00

PURPLE or **BROWN KALE** . . . 15 1 00

**EARLY JERSEY WAKEFIELD.****DANISH BALL HEAD CABBAGE**

CABBAGE Kopt-Kohl.	Per oz	Per lb
COPENHAGEN MARKET. See page 22 for full description.	\$ 50	\$6 00
EARLY SPRING CABBAGE. The earliest and best of all the first early sorts. It's hardiness fits it not only to resist the cold, but any and all unfavorable conditions.	40	3 00
DANISH BALL HEAD CABBAGE, Tall Imported direct from Denmark, and is the genuine true to name variety. Have imported annually for many years, and it has given the best of satisfaction. Our seed for this season is especially fine .	30	3 00
Danish Ball Head, short . .	30	3 00
Henderson's Early Summer	30	2 50
Winningsstadt, early pointed	30	2 50
Early Jersey Wakefield pointed.	30	2 50
Succession,	30	3 00
Sure Head Cabbage	30	2 50
Fotler's Brunswick	30	2 50
Hollander	30	3 00
All Seasons	30	2 50
Premium Flat Dutch	30	2 00
Large Late Drumhead . . .	30	3 00
Marblehead Mammoth . . .	30	3 00
Warren or Stonemason . . .	30	3 00
Danish Stone Head, red . .	40	5 00
Red Dutch, "Erfurt," early	30	5 00
Mammoth Red Rock, late, .	30	5 00
Large Dark Red Drumh'd	30	4 00
Globe Savoy	30	3 00
Victoria. Savoy	30	3 00

GENUINE DENMARK GROWN CAULIFLOWER SEED.

Imported annually from our Denmark growers for many years.

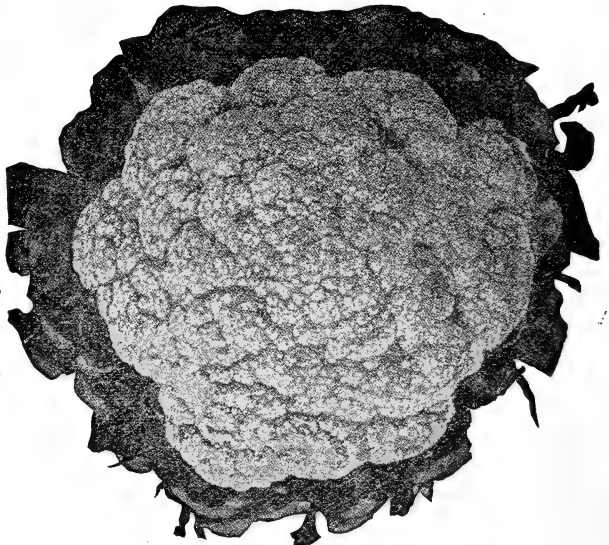
The best Gardeners in this section have used our strains for years. A sure header, a fine yielder and a money maker.

CAULIFLOWER-BlumenKohl

Per oz.

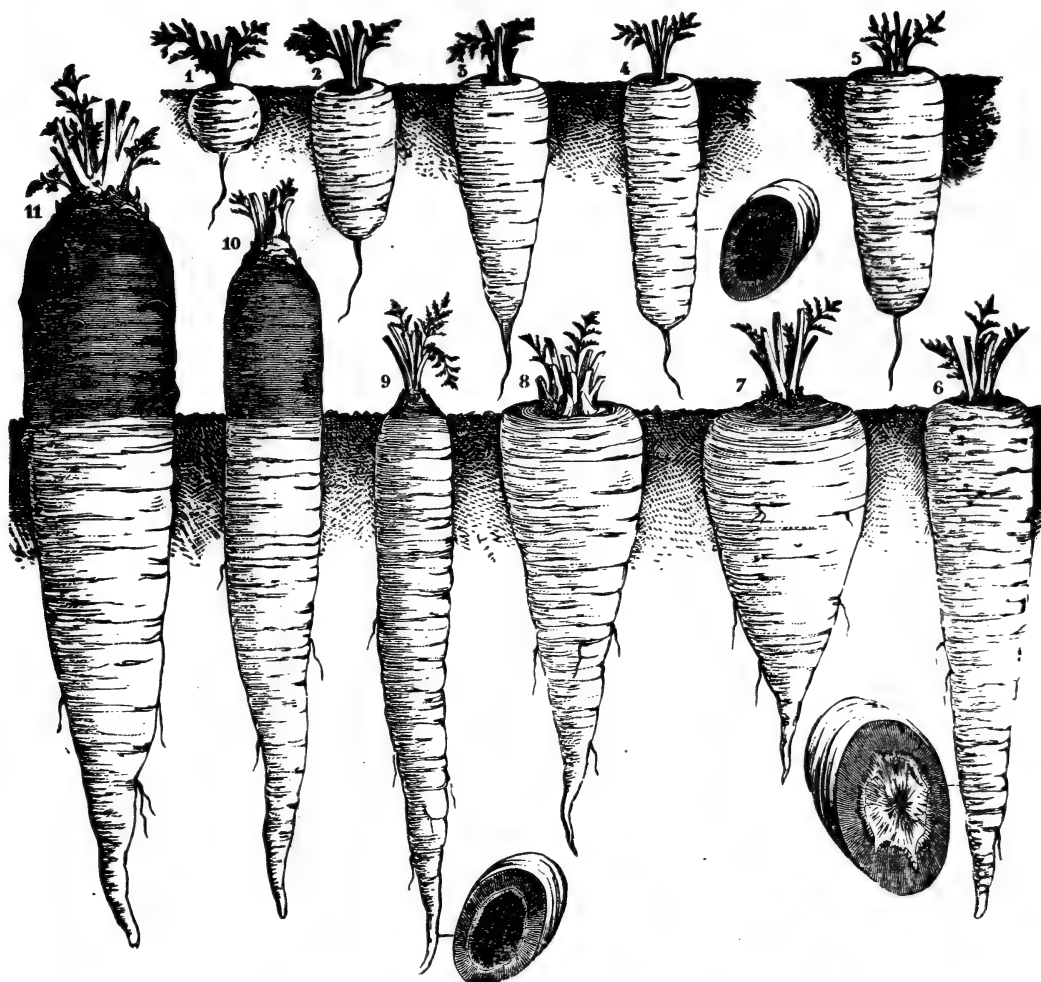
Ebeling's Danish Giant, extra small leaf, fine large head, late, \$2 50

Ebeling's Dwarf Snowball, fine quality, true, early, . . . 2 50

**TRUE SNOWBALL CAULIFLOWER**

NON-WARRANTY—F. H. Ebeling gives no Warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants he sends out, and he will not be in any way responsible for the crop. If the purchaser does not accept the goods on those terms, they are at once to be returned.

Bei uns wird Deutsch gesprochen.



THIS CUT SHOWS TRUE SHAPE OF CARROTS.

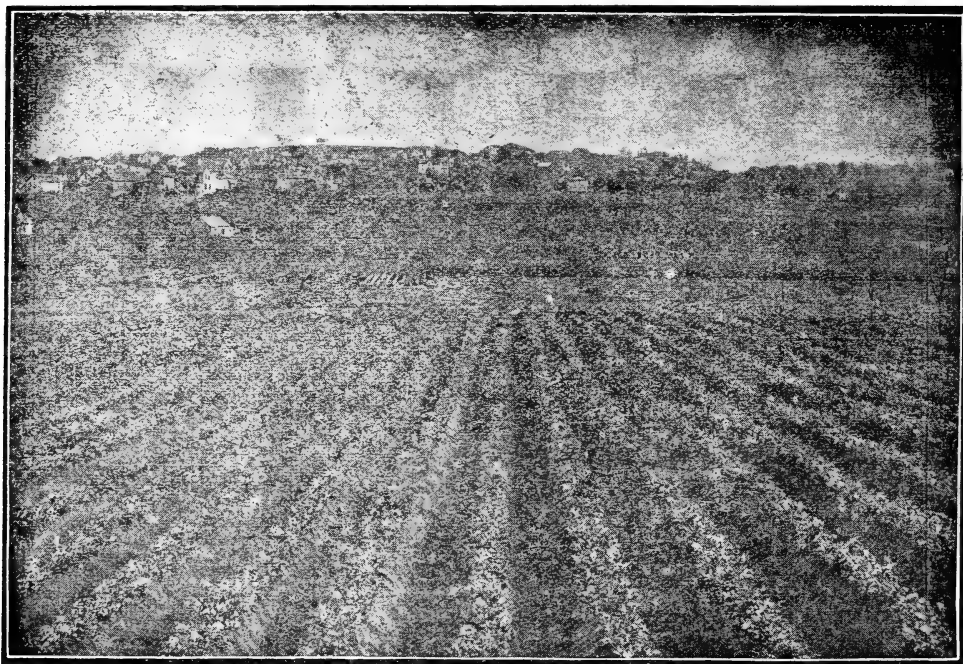
CARROTS, Gelbe Ruben.

	Per oz	Per lb
1. Early French Forcing , nearly round, small, very early,	\$ 20	2 00
2. Early Horn , scarlet, very early,	20	2 00
3. Danver , medium size, orange yellow,	20	1 50
4. Chantenay , finest quality for table, dark orange	20	1 50
5. Rubicon Half Long , rich, dark orange, (Improved Danver)	20	2 00
6. Saint Vallery or Point Rooted Danver	20	2 00
7. Large White Vosges , for cattle, large yielder,	20	1 25
8. Half Long Pointed , St. James' new, red	20	1 76
9. Altringham , red for butter,	20	1 50
10. Long , orange green top, yellow, very productive,	20	2 00
11. Large White Belgian , very productive,	20	1 25
Meaux Large , dark orange stump rooted, smooth, fine for table, .	20	2 00
Oxheart (or Guerande), thick stump rooted,	20	2 00

Names of a few gardeners who have dealt with this house continuously from 28 to 43 years:

Wm. Clark, Solvay,	42 years.	William Lambert, Salina,	35 years
Charles B. Day, Waterloo,	29 "	Henry O'Neill,	29 "
J. N. Rose, Syracuse,	44 "	John Butler, Onondaga Valley,	41 "
S. B. Babcock, Fulton,	36 "	A. H. Ballard, East Onondaga,	31 "
Albert Wright, Syracuse,	44 "	George Oraddock, Onondaga,	43 "
Michael O'Brien, 2251 Court, Syracuse	39 "	Henry Wright, Syracuse, died in 1912	48 "

Also hundreds of others who have dealt with us 6 to 27 years.



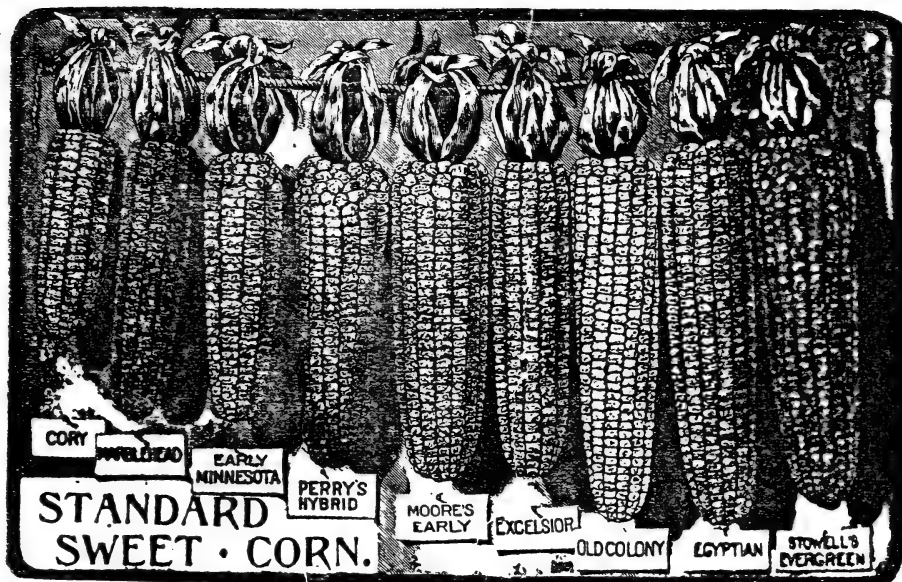
A FIELD OF OUR WHITE PLUME AND PARIS GOLDEN CELERY.

CELERY, Selerie.

	Per oz	Per lb
PARIS GOLDEN SELF BLANCHING. French Grown Our strain of this variety is unexcelled and absolutely reliable; this sort is without doubt the finest early Celery in cultivation. It is perfectly solid, of a fine, nutty flavor, attains a good size, when blanched is of a handsome golden yellow	\$1 50	\$20 00
CRAWFORD'S HALF DWARF. Very solid, creamy white when blanched; fine flavored,	25	2 00
DWARF GOLDEN HEART. Resembles the Half Dwarf White in habit of growth; very solid and the heart is of a golden yellow when blanched; excellent keeper.	25	2 00
WINTER QUEEN. Fine green variety, large and solid,	30	2 00
GIANT PASCAL. The largest variety grown, is also the best keeper; of fine, nutty flavor, very easily blanched; deservedly popular for fall and winter use	25	2 50
GIANT WHITE SOLID. Attains large size, is a quick grower, solid, crisp and a good keeper. Very popular with the English gardener	1 50	1 000
WHITE PLUME. A well known and perhaps the most popular variety of Celery; very early, ornamental, and for quality surpassed by none,	25	2 50
BOSTON MARKET. Popular in the markets of Boston; a strong grower, remarkably tender and crisp,	25	2 00
KALAMAZOO WHITE SOLID DWARF. Grown extensively by Celery growers at Kalamazoo, Michigan; a dwarf white variety, easily blanched; a good keeper and popular as a shipper,	30	2 00
NEW ROSE. The best of all the red or pink varieties, combining hardness, solidity and keeping qualities; for crispness, and fine, nutty flavor, it has no superior,	30	3 00
PERFECTION HEARTWELL. A large, solid, fine flavored, sort of creamy white color; a fine winter sort,	25	2 00
SUTTON'S SUPERB PINK. English grown seedstock. Very crisp, sweet and tender. Favorite with the English gardener. The finest of all Celery for family use,	75	10 00
PINK PLUME. Practically identical with Improved White Plume, but with the added merit of the stalks being richly suffused with pink,	30	3 00
SOUP CELERY. Seeds for flavoring soups, pickles, etc.,	15	1 00
CELERIAC. Large smooth or turnip rooted Celery,	15	2 00

CHICORY, Chichorie.

Improved Large Leaves for Greens,	15	75
Large Rooted for Coffee,	15	75



SWEET CORN.

Price on corn subject to change without notice.

	Per qt	Per bu.
GOLDEN BANTAM —Three feet high, small ear, golden creamy yellow kernels, of superb quality	\$ 30	\$5 00
PREMO —The earliest and best sweet corn in existence, early as the "Early Adams,"	30	5 00
EARLY MONARCH —Very white, 12 14-row, large, really as early as Perry's Hybrid, frequently 2 ears on a stalk, very sweet, most desirable, second early in the market,	30	5 00
PREP O' DAY —Extremely early, pure white, small cob, very sweet,	30	4 00
CORY RED —Earliest 8-row, red cob 6 inches long,	25	4 00
CORY WHITE —Similar to Cory Red,	25	4 00
MARBELHEAD —Extra early, Red Cob, very fine,	25	4 00
PERRY'S HYBRID —Early 12-rowed, large ears, stalks of strong growth, 2 ears to the stalk, very sweet	25	4 00
EARLY MINNESOTA —8 rowed, large sweet kernels fine standard sort,	25	4 00
GROSBY EARLY —12-row, second early, 10 to 12 row, medium size,	25	4 50
BALLABD'S RED COB —Similar to Perry's Hybrid,	25	4 00
SHAKER'S —Early, large ears, fine quality,	30	4 00
EARLY EVERGREEN —12 rows, 10 days earlier than Stowells,	20	5 00
MOORE'S EARLY CONCORD —Large, handsome 14-rowed, fine quality,	20	4 00
ASYLUM —Large, fine late, very sweet	20	4 00
EGYPTIAN —Large, very late, tall growing, very sweet tender, fine for canning,	20	4 00
STOWELL'S EVERGREEN —Extra fine quality, stalks of strong growth, 2 ears to the stalk, very sweet, large kernels and slender cob,	20	4 50
COUNTRY GENTLEMAN —A cross of the Stowell's Evergreen and Ne Plus Ultra, slender and deep kernels, very productive and sweet,	30	5 00
HIOOX'S IMPROVED SUGAR —Very fine late, large ears, popular canning variety,	20	4 00
BLACK MEXICAN —Medium early, 8-row, very sweet,	20	4 00
ANGEL-OF-MIDNIGHT —A very popular field sort		2 00
EIGHT-BOWED YELLOW —A very desirable field variety		2 00
SMUT NOSE or KING PHILIP —A fine, large yielding sort		2 00
EIGHT BOWED WHITE —Large eared, field variety, large yielding sort		2 00
HURON DENT —Dent variety, ripens like State corn		2 00
PRIDE OF THE NORTH —Ensilage variety		2 00
LEAMING —Fodder corn—Ensilage variety		2 00
EUREKA ENSILAGE		2 50
IOWA GOLD MINE		2 00
EVERGREEN —Sweet corn for fodder,		3 00
IOWA GOLD MINE —Ensilage variety		2 00
LUCY'S FAVORITE YELLOW DENT —See pp. 6		2 00
STACY'S WHITE FLINT —		3 00

Per oz Per lb.

CORN SALAD , Ackersalat. Large round leaved or small seeded,	\$ 75
CHERVIL , Gartenkerbel. Curled Treat like parsley A valuable flavoring herb	2 00
CRESS OR PEPPERGRASS , Kresse. Fine for salads	
CRESS —Garden curled,	75
WATER CRESS —DWARF—Fine curled, grows in shallow water	2 50



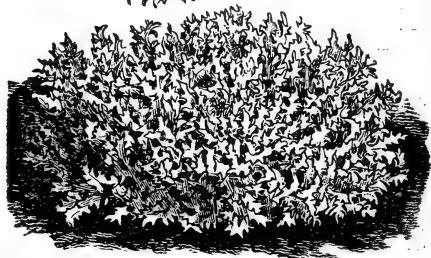
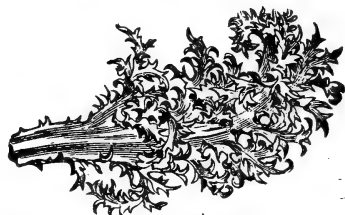
THE ABOVE SHOWS THE TRUE TYPE OF CUCUMBERS.

No. 1, Early Cluster; 2, Long Green; 3, Early Frame; 4, Early Russian; 5, White spine.

CUCUMBER, Gurke.

Per oz Per lb

Arlington. A selection from the White Spine, but more pointed at each end. Very dark green color	Pkt. 5c;	\$ 10	1 00
Cumberland, handsome green—straight, firm, solid, crisp . .		10	1 00
Japanese Climbing. Very handsome, long, dark green . . .		10	1 00
Hill's Forcing Early White Spine,		10	1 00
Fordhook White Spine,		10	1 00
Green Prolific, extra early, . . .		10	1 00
Early Russian,		10	1 00
Early Frame,		10	1 00
Early Cluster,		10	1 00
White Spine, Improved ext. stock,		10	1 00
Long Green,		10	1 00
Giant Pera,	per pkt.,	20	
Telegraph, per doz., seed, . . .		20	
West India Gherkin,	"	20	

**ENDIVE.****KOHL-RABI.****EGG PLANT, Eierpflanze.**

Per oz Per lb

New York Improved,	\$ 40	\$4 00
Black Pekin, or Black Beauty	40	4 00
ENDIVE, Endivien. "Escarolle" or "Chicoree."		1 00
Yellow Early (not curled),	20	1 50
Green Curled Winter,	20	1 25
Fine Curled Summer,	20	1 50
Broad Leaf	20	1 50

GARLIC, Knoblauch. Sets 10 40**HERBS, See page 23.****KALE, or Borecole. See Borecole.**

Green Curled,	15	75
Siberian Curled, German Greens,	15	75

KOHL-RABI.

White, above ground,	25	2 00
Purple, above ground,	25	2 00
LEEK, Lauch. London, broad flag,	20	1 25



GRAND RAPIDS LETTUCE.

LETTUCE Salat.

Per oz Per lb

Grand Rapids , new forcing		
very fine for greenhouse . . .	\$ 15	\$1 50
Denver Market , early head . .	15	1 50
Onondaga , for Green House . .	15	1 50
Brown Dutch	15	1 50
Big Boston	15	1 50
Satisfaction	15	1 50
Early Curled Simpson . .	15	1 50
Early Curled Silesian . .	15	1 50
Golden Stone	15	1 50
Iceberg	15	1 50
Hanson Head	15	1 50
New York Head	15	1 50
Indian or Prize Head . .	15	1 50
Tennis Ball	15	1 50
White Cos	15	1 50

Yellow Seeded Butter—Cabbage Butter head, medium large, medium green, leaves crumpled and rather thick. Is similar or same as silver ball.

Giant White Cos—Large size, medium light green, is quite tall, forms a good head.

Deacon Head—Cabbage butter head, medium size, medium green, leaves thick. Does not form a decided head but a well folded one, which is very oily and golden yellow inside.

Denver Market—Cabbage, butter head, medium small size, medium green. One of the old standard varieties, and in our experience have found it identical with White Seed Tennisball.

Big Boston—A fine large-heading forcing sort, and succeeds well in cold frames during the winter. The plants are very hardy and vigorous. When well grown, the heads are beautifully blanched and quite tender.

New York Head—Curled or Crisp as Iceberg, dark green heads somewhat conical.

MUSKMELON. Melone.

Per oz Per lb

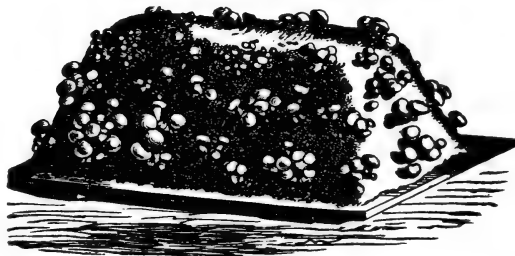
Hoodoo —New orange fleshed.	\$ 10	\$ 25
Onondaga Musk Melon —A new early, large, fine oblong, netted, green fleshed melon. A great yielder, very hardy, firm fleshed, attractive in appearance	10	1 25
Paul Rose or Petosky —Fine salmon fleshed	10	1 25
Miller's Cream or Osage —Very fine, deep Salmon flesh	10	1 25
Surprise —Round, salmon flesh, medium size	10	1 25
Tip Top —A very fine, salmon fleshed, market melon	10	1 25
Emerald Gem —Salmon flesh	10	1 25
Osage —Salmon fleshed	10	1 25
Green Citron —Color dark green	10	1 25
Large Nutmeg or Improved Cantelope —Green flesh	10	1 25
Montreal Market Musk —Green flesh,	10	1 25
Hackensack —Very fine, green, large, attractive	10	1 25
Rocky Ford —New, green flesh,	10	1 25

MUSHROOM SPAWN.

Mushrooms may be grown wherever the temperature of 60 degrees can be kept up throughout the winter. The beds should be made from November to February, according to the time the Mushrooms are wanted. It takes about two months to begin bearing.

Best English Spawn

Price, 15 cents per pound.



MUSHROOM BED

For full particulars how to grow them, see our book on Mushroom growing listed on front page inside of cover. Price \$1.25



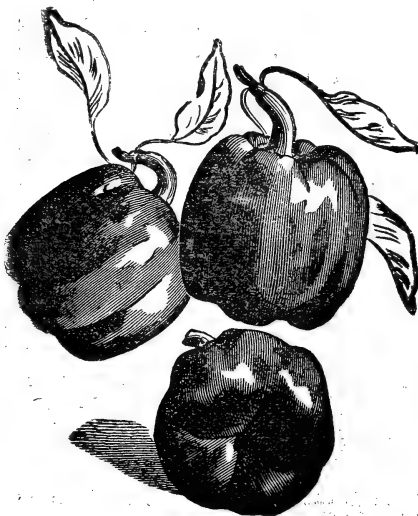
A field of our Yellow Globe Danver Improved Onion.

WATERMELON. Wassermelone

	Per oz	Per lb
Sweet Heart , early, large, handsome,	\$ 10	\$ 75
Phinney's , Early, red flesh,	10	75
Cole's Extra , early,	10	75
Mountain Sweet , old favorite,	10	75
Black Spanish , round, dark green with red flesh,	10	75
Ice Cream ,	10	75
Green Citron , for preserves	10	75
MARTYNIA , for pickles,	10	3 25
NASTURTIUM.		
Tall (See Flower Seed),	10	75
Dwarf ,	10	75
OKRA or GUMBO.		
Dwarf , white,	10	75
MUSHROOM SPAWN.		
English ,	25	
MUSTARD, Senf.		
White ,	05	25
Brown ,	05	35

ONION. Zwiebel

	Per oz	Per lb
Southport Yellow Globe \$	20	\$1 50
Michigan Yellow Globe	20	1 50
Ohio Yellow Globe	20	1 50
Yellow Globe Danvers , Improved	20	1 50
Flat Danver Yellow	20	1 75
Prize Taker	20	1 75
Extra Early Red , early, flat,	20	2 00
Southport , Red Globe,	20	2 00
Large Red Wetherfield	20	2 00
California Early Red		1 75
Bolton Seed , produces the Bolton Sets,	25	3 50
White Silverskin or Portugal , for bunching,	25	2 50
Southport White Globe	25	2 50
Mammoth Silver King	25	2 50
Barletta or White Queen		2 50
Small white. Fine for pickles		2 50
TOP ONION SETS. Market Price		
Bolton. Yellow. White. Potato.		



BELL OR BULL NOSE.

PARSLEY. Peterselia	Per oz	Per lb
Champion Moss Curled	\$ 10	\$1 00
Fern Leaved	10	1 00
Extra Double Leaved	10	1 00

PARSNIPS. Pastinake

Long White	10	75
Hollow Crown thick shoulder	10	75

PEPPER. Pfeffer

Chinese Giant	50	5 00
Rose Mammoth , extra Bull Nose	25	2 50
Bell or Bull Nose , extra large	25	2 50
Ruby King , extra long	25	2 50
Long Red Cayenne	25	2 50
Monstrous Red , for stuffed pickles,	25	3 00
Celestial , new,	25	3 00
Red Cluster or Red Cherry	25	2 50
Chili , small, for pepper sauce	25	2 50
Birds Eye or Creole , extremely hot, small red,	25	2 50

PEAS. Erbsen

EXTRA EARLY SORTS.

Per qt

These prices subject to change without notice. Prices per bushel on application.

- ***Thomas Laxton**, One of the very best early peas. More prolific than Gradus and pods nearly as large. Extra fine quality. Height 30 to 31 in. Should be in every garden. Season 53 to 58 days. 40
- ***Gradus or Prosperity**, pods as large as Telephone. Early as Alaska. Extra fine quality. Height about 30 in. Grow it. Season 50 to 55 days. 40
- Alaska**, very early, excellent quality. Height 30 in. Season 48 to 50 days 40

DWARF VARIETIES.

Laxtonian—The New Dwarf Gradus P. a. This is the largest podded of all the early dwarf varieties and is a new sort of decided merit. 16 inches high, averaging from 9 to 10 peas to the pod, of exclusive flavor and mature early. Superior to either Gradus or Thomas Laxton, Qt 60c, not prepaid; 4qts. \$2.00; pk. \$3.50; bu \$5.00.

Little Marvel. Still another year's experience makes us hold this distinct new dwarf first early in even higher esteem. We are sure that as soon as American gardeners become acquainted with it they will drop Little Gem and Nott's Excelsior. Vines of dwarf even growth, fifteen inches in height, heavily podded, frequently in pairs. Pods average two and one half inches in length, well filled with six to seven large, deep green peas. Are ready for the table fully as early as American wonder but vines produce a much heavier crop. 1-2 pt. 20c; per qt. 35c; qt. 60c; 4 qts. \$2.20; pk. \$4.00.

***American Wonder**, sweet, wrinkled. Very early. About seven weeks from planting to picking. Height 10 to 12 in. Season 50 to 53 days 40

***Little Gem**, a dwarf, green, wrinkled pea. Very prolific and of excellent flavor. A few days later than above. Height 16 to 18 in. Season 55 to 60 days 40

***Nott's Excelsior**, resembles American Wonder. A trifle taller and more prolific. A few days later. Fine quality. Season 55 to 60 days 40

***Premium Gems**, a week later and a few inches taller than American Wonder. Fine quality. Season 58 to 60 days 40

SECOND EARLY.

***Advancer**, about the same as Premium Gems. A good, sweet, wrinkled pea. Height 25 to 30 in. Season 53 to 60 days 40

***Horsford's Market Garden**, season about the same as Advancer, but more hardy and prolific. Good quality. Season 60 to 65 days 40

***Ebeling's Telephone**, follows Advancer. Pods very large, well filled with extra fine sweet peas. Height 4 feet. Season 68 to 70 days 40

***Duke of Albany**, similar to Telephone, but pods and peas darker green, holding fresh appearance longer. Season 72 to 75 days. 40

Long Island Mammoth (sometimes called the Telegraph) This celebrated Pea very closely resembles the Telephone. Pods large contain six to nine seeds, height 4 feet. Darker colored than Telephone a very prolific yielder. 40

***Dwarf Champion**, productive, good quality. Height 25 to 30 in. Season 73 to 75 days 40

LATE VARIETIES.

***Abundance**, productive, good quality. Height 2 1-2 to 3 feet. Season 77 to 80 days 40

Everbearing, good quality. Height 2 1-2 to 3 feet. Season 78 to 80 days

***Champion of England**, an old favorite. Good quality. Height 4 feet. Season 78 to 80 days 40

***Yorkshire Hero**, good quality, large peas. Height 2 ft. Season 78 to 80 days

***Improved Stratagem**, pods large, peas extra fine quality. A fair cropper, yielding well under favorable conditions. Height 2 feet. Season 80 to 82 days 40

***Mammoth Podded Sugar**, large, edible pods, to be broken and cooked like string beans. Height of vine 5 to 6 feet 40

White Marrowfats, fair quality. Height 4 to 5 ft. Season 80 to 85 days 25

Black Eyed Marrowfats, season 75 to 80 days 25

*Wrinkled varieties.

For a larger and better yield Peas must be inoculated with Farmogerm. See page 8.

POTATOES.

Per bu.

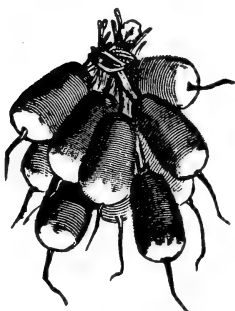
- Irish Cobbler** is the best extra-early white potato grown. The tubers are smooth, round plump and handsome. The flesh is white and of splendid quality \$2 00
- True Early Rose.** The Early Rose is the old standard early potato rosy bluish skin, white flesh; early, productive, and of excellent flavor; a fine keeper. 2 00
- Early Ohio.** Leading early sort, earlier than Early Rose, but not so productive; round short thick tubers, smooth and solid; cooks dry and mealy and matures early. 2 00
- Sir Walter Raleigh**, is the best of the late Potatoes, a grand main-crop variety of vigorous growth and a tremendous cropper. Whitest fleshed, finest grained Potato grown, excelling even the famous Snowflake. The tubers are round, white smooth skin. 1 75
- Carman No. 3**, another large, round white, main-crop Potato, tubers are very large, eyes are shallow and few in number and it is an immense yielder of large Potatoes 1 75

PUMPKIN SEEDS.

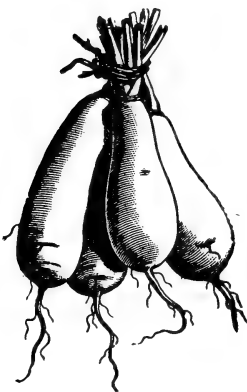
- Connecticut Field, per lb., 15
- Cashaw Pumpkin, fine table per lb., 60
- Cheese Pumpkin per lb., 50
- Mammoth Prize Pie per pkt., 1 00



DEEP SCARLET TURNIP
RADISH.
SMALL TOP. NEW



FRENCH BREAKFAST
RADISH.



CHINESE ROSE WINTER
RADISH.

RADISH. Radischen. Best imported. French stock.

	Per oz	Per lb
Johnson's Perfection Red White Tipped Radish . . .	\$ 15	\$1 00
White Strasburg, fine, solid, large, summer, . . .	10	75
Icele. Handsome, long, pure white, fine. Some- what shorter and mature a little earlier than Long White Vienna. A fine white summer sort . . .	10	75
Early Scarlet Globe,	10	75
Ne Plus Ultra Deep Scarlet Turnip, forcing . . .	10	75
Early Scarlet Turnip, white Tipped (rosy gem) . .	10	75
Early Deep Scarlet Turnip, forcing,	10	75
Early White Box or Turnip,	10	75
Early Deep Scarlet, olive shape, small top, . . .	10	75
White Olive Shape or Newcomb,	10	75
French Breakfast, or White Tipped,	10	75
Early Long Scarlet, short top,	10	75
Long White Vienna or Lady Finger, excellent, . .	10	75
Chartier Long, white tipped,	10	75
Scarlet Chinese Rose Winter, fall variety, . . .	10	75
Round Black Spanish Winter, German favorite, . .	10	75
White Russian, very large, winter,	10	75
California Mammoth White, winter,	10	75
Long Black Spanish, winter, black skin, white flesh.	10	75
Giant Stuttgart. Fine, large, white winter . . .	10	75
White Giant Spanish, winter,	10	75
Special prices in quantities.		

SAGE, 20 2 00

SALSIFY, or Vegetable Oyster, Bocksbart.

Large White,	10	1 00
Mammoth Sandwich Island, new,	10	1 00

SORREL, Large Leaved French, 10 1 00

SPINACH. Spinat. 25 lb. lots special prices.

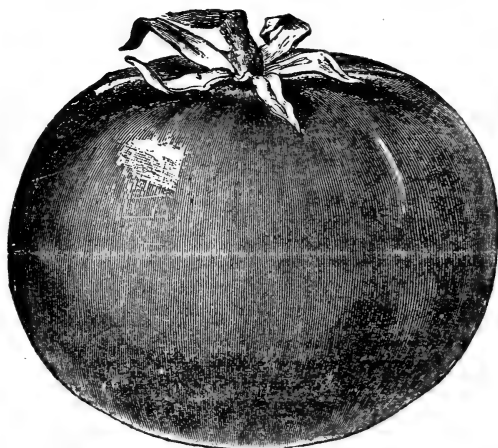
Early Giant Thick Leaved. An early maturing sort, with large leaves of fine, deep green color, . . .	5	30
Round Summer Broad Leaved. Preferred in the north for early spring sowing, and is the most popular with our market gardeners. The leaves are large, thick and fleshy. Though not quite as hardy as the Prickly Winter, stands exposure well,	5	30
Round-Viroflay. (Thick leaved.) Has very large thick, dark green leaves; the favorite market gar- dener's sort for fall or spring sowing,	5	30
Norfolk Savoy, or Bloomsdale. Large curled and wrinkled leaves; tender, of finest flavor, . . .	5	30
Long-Standing. (Round, Thick-leaved.) Dark green; leaves large and thick; very long-standing before running to seed; the best for spring growing, . .	5	30
Victoria. The foliage is heavy, the broad, dark green leaves being of the true Savoy appearance and of the finest quality; remains in prime condi- tion from two to three weeks after all other vari- eties have run to seed; a fine variety for spring sowing,	5	30
Prickly or Winter. Vigorous and hardy, and rec- ommended for fall sowing,	5	30

SQUASH. Kurbis.

	Per oz	Per lb		Per oz	Per lb
The Delicious, new,	\$ 10	\$ 85	Hubbard, winter, fine stock, . . .	\$ 10	\$1 00
Golden Hubbard,	10	85	Boston Marrow, old variety, fall, . .	10	1 00
Golden Bush Scallop,	10	75	Butman, nearly like Hubbard, . . .	10	1 00
Early Scallop, white,	10	75	Marblehead, like Butman,	10	1 00
Giant Summer, Crook-neck,	10	75	Vegetable Marrow,	10	1 00
The Faxon, very early,	10	75	Fordhook,	10	1 00

TOBACCO SEED. Tobacco Samen.

Wilson's Hybrid,	per oz. 50.	Haynes,	per oz. 50
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CHALKS EARLY JEWEL.

LANDRETHS' RED ROCK.—This wonderful Tomato will ripen in 110 days from seed sown in the open field to RIPE FRUIT, according to soil, location and weather conditions, or if fruited from plants raised in beds then sixty or seventy days from transplanting. Earlier and larger than "Stone."

A fine, very red Canner's variety, extraordinarily meaty and solid, smooth as an apple, free from cracks, red as is possible to be, and free from an excess of water. It ripens clear up to the stem without crack, depression or core. An amazingly heavy producer, thirty tons frequently having been grown to the acre. Heavy and continuous in bearing from the first of July until killed by frost. Nearer sun-proof and rust-proof than any other sort.

It is recommended specially to planters for canning factory purposes.

*Another new variety from Livingston. This is what he says of it: "The same sort of tomato as Dwarf Champion, but the vine is of stronger growth and the fruit is double the size."

TOMATO. Liebesapfel.

	Per oz	Per lb
Landreth's Red Rock, see description below,	\$ 40	\$ 4 00
*Livingston's Dwarf Stone, red	40	3 00
Sparks Earliana, largest early scarlet on the market, . . .	40	3 50
Chalk's Early Jewel, scarlet, .	25	3 00
New Scarlet Stone,	25	2 50
Matchless, large scarlet, . . .	25	3 00
Ignotum, new, deep red, . . .	25	3 00
Dwarf Champion, pink,	25	2 50
Livingston's Beauty, pink, . .	25	2 25
Livingston's Favorite, scarlet	25	2 25
Acme, purple,	20	2 00
Lorillard, early bright red, . .	25	2 50
Ponderosa, very large, red, . .	25	3 50
Trophy, large and solid, red .	25	2 25
Yellow Husk,	5c	paper
Golden Queen,	5c	"
Yellow Plum,	5c	"

TURNIP. Steckrube

Per oz Per lb

LONG ISLAND IMPROVED RUTA BAGA TURNIP.

This very desirable variety is nearly globe shaped with absolutely no neck. The flesh is firm and very tender; color on outside white with purple top, while the inside is pale yellow. Has the same flavor and richness of ordinary Ruta Baga without the strong flavor. In fact it bears the same relation to the Turnip as the Cauliflower to the Cabbage.

Cow Horn, or Long White. Pure white, except a little shade of green at the top carrot-like in form, growing nearly half out of the ground and slightly crooked. Delicate and well flavored, of very rapid growth and has obtained considerable favor for fall and early winter use,

Extra Early White Milan,	10	75
Purple Top, strap leaf, flat white,	10	60
Mammoth Purple Top White Globe,	10	60
Golden Ball or Orange Jelly,	10	60
White Norfolk, large, fine summer, globe shape	10	60
Early White Stone, very fine,	10	60
White Dutch, flat,	10	60
Yellow Aberdeen,	10	60
White Sweet Waldo or German,	10	60
Skirving's Yellow Ruta Baga, purple top, very large	10	60
Laing's Improved Swede, white,	10	60
Carter's Improved Swede, yellow,	10	60



RUTA BAGA AMERICAN PURPLE TOP TURNIP.

SWEET HERBS.

Anise, seeds aromatic,	5c
Balm, has medicinal qualities,	5c
Basil, sweet,	5c
Borage, leaves used for salad,	5c
Caraway, seeds aromatic,	5c
Chives,	5c
Coriander, seeds aromatic,	5c
Dill, seeds aromatic and medicinal,	5c
Fennel Sweet, seeds aromatic,	5c
Horehound,	5c
Lavender, leaves aromatic,	5c

SWEET HERBS.

Marjoram, leaves used in seasoning,	5c
Mint (peppermint),	5c
Rosemary, aromatic,	5c
Rue, medicinal qualities,	5c
Saffron, medicinal qualities; also dyeing,	5c
Sorrel,	5c
Sage, culinary herb,	5c
Savory Summer, culinary herb,	5c
Tarragon or Estragon (roots),	5c
Thyme, culinary herb,	5c
Wormwood, medicinal qualities,	5c

SELECT FLOWER SEEDS.

- Abobra** (Gourds) Beautiful variety of climbing gourd with elegant foliage. 5c pkt.
- Abronia** (Sand Verbena) Trailing, annual, sweet-scented clusters like verbenas, lasting in bloom a long time; for rock-work or hanging-baskets. Height 12 inches. 5c pkt.
- Abutilon** (Chinese bell flower or flowering maple) Free flowering, perennial shrub; fine for indoors. For outdoor sow before April. Will bloom first season. 10c pkt.
- Acacia** Half hardy shrub having ornamental foliage, beautiful shades of yellow, globular flowers. Soak seed in warm water before sowing. Height 6 to 10 ft. Mixed 10c pkt.
- Aconitum** (Monk's hood or Wolfs bane) Hardy, perennial, long spikes of odd shape blue and white flowers, adapted to shady corners or among shrubbery; 3 to 5 ft. 5c pkt.
- Acroclinium** Pretty, annual everlasting, 15 inches high, lovely white or rosy pink flowers, fine for border. Sgl. or dbl. 5c pkt.
- Adlumia** Hardy white perennial, 2ft. high, pure white double flowers, bloom from spring until frost, fine for cemetery decoration. Flowers first season if sown early.
- Adlumia** (Mountain fringe or Allegheny Vine) A hardy biennial climber, will resow itself year after year, feathery foliage resembling Maiden-hair Fern, flowers tube-shaped, flesh colored completely covering the plant, fine for trellises, stumps, etc. 10c pkt.
- Adonis** (Pheasant's eye) Flos Adonis, Showy, hardy, annual, of easy culture, fine cut foliage, blooms a long time; dark crimson flower with light center. Height 1 ft. 5c pkt.
- Ageratum** (Floss Flower) Fine bedding sort, literally a sheet of bloom from early summer until frost; not liable to be spoiled by rain, flowers not liable to fade; easily raised from seed. Sow in March or in hot-bed and transfer into open ground in June when weather is suitable; valuable for winter flowering for conservatory. 5c pkt.
- Blue Perfection** Dark blue, largest flowering, fine bedder. 10c pkt.
- Cope's Pet** Azure blue, fine light blue sort for edging. 10c pkt.
- Dwarf Princess Pauline** Beautiful, compact, sky blue, white center, very exquisite. 10c pkt.
- Mexicanum** Lavender blue, 1-2 ft. 5c pkt.
- Imperial Dwarf White** Height 8 inches. 5c pkt.
- Agrostemma** (Rose of Heaven) Free blooming, hardy, perennial, blooming first season, height 1 to 2 ft. Mixed 5c pkt.
- Alyssum** (Mad-wort) Pretty little plants for beds, vases, baskets, edging, etc. Bloom profusely all summer, also useful for winter. Very sweet-scented.
- Little Gem** (or Carpet of Snow) 4 to 6 inches in height, each plant covering a circle of 15 to 30 inches. 5c pkt.
- Sweet Alyssum** Trailing flowers, white. 5c pkt.
- Tom Thumb** Compact, dwarf, fine for edging, white. 5c pkt. 30c oz.
- Saxatile Compactum** (Basket of Gold,) handsome yellow flowers, hardy perennial, blooming first season, fine for rock work, 1 ft. 5c pkt. 30c oz.
- Amaranthus** Brilliant foliaged annuals, 3 to 5 ft. Useful in borders or centers of large beds. Do not plant too closely.
- Brilliant** Foliage bright red, ends of branches carmine-rose, red and yellow. 10c pkt.
- Caudatus** (Love lies Bleeding) Blood red, drooping foliage, 3 ft. 5c pkt.
- Salicifolius** (Fountain Plant) Pyramidal, drooping habit. 5c pkt.
- Sunrise** Bronzy crimson to brilliant scarlet. Fine for parks and large beds, 3 ft. 10c pkt.
- Sulphurine** Leaves dark green, bright sulphur yellow. 10c pkt.
- Tricolor** (Joseph's Coat) Leaves red, yellow and green, 3 ft. 5c pkt. 30c oz.
- Ammobium** (Winged Everlasting) Grandiflorum, Pretty Border, annual ever-lasting, flowers white with yellow disc. 5c pkt.
- Amelopsis** (Boston or Japanese Ivy) Hardy, perennial climber, olive green leaves turning to scarlet in fall. Popular climber, fine for brick or stone walls. 10c pkt.
- Anemone** (Windflower) Hardy, perennial, large flowers, fine for bouquets. Mixed colors. 10c pkt.
- Antirrhinum** (Snap Dragon) White, yellow, scarlet, each 10c pkt. mixed colors. 10c pkt.
- Aquilegia** (Columbine) Charming, hardy, perennial, 1 to 3 ft., profuse bloomer, blue, white, rose, yellow, purple, striped, etc. Fine for borders. Sgl. mixed 5c pkt. Dbl. mixed 5c pkt.
- Arabis** (Rock Cress) Alpina very early, pure white, spring flower, appear as soon as snow disappears. Fine for rockeries or edging. 6 inches high. 10c pkt.
- Arctotis** Grandis, Beautiful new annual, 2 to 3 ft. high, large strong pure white flower embellished with yellow center, of the easiest culture. 10c pkt.
- Aristolochia Sipho** (Dutchman's Pipe) A quick growing climber with large heart shaped leaves. 5c pkt.
- Armeria** (Sea pink or cushion pink) Very pretty edging plant, bearing large tufts with rosy pink flowers, hardy perennial. 10c pkt.
- Asparagus** Plumosus Nanus Graceful climber, finer than most delicate ferns. Will last for weeks after being cut, easily cultivated. 25c pkt.
- Sprengeri** One of the best for hanging baskets or general purposes, fronds 4 ft. long. 10c pkt.
- Verticillatus** Graceful, hardy perennial climber, scarlet berries. 10c pkt.
- Asperula Odorata** (Sweet Woodruff) Fragrant leaves and stems, grown in shaded places, white flowers. 5c pkt.
- Asters** are now one of the most important summer and autumn flowers. Their immense popularity and world-wide demand shows their adaptability to any soil or climate, there being early medium and late flowering sort which extends the blooming period from early July until frost. For the best results the ground should be very rich. Good results can be obtained from ordinary garden soil.
- Branching Varieties** 1-2 ft. high., very double, beautifully incurved. Crimson 10c, blue 10c, pink 10c, white 10c, rose 10c, mixed 10c.

Asters (Continued).

- Branching Peony Flowered** In vigor of growth, size of bloom and other qualities this type is unequalled. Height about 18 inches, free branching habit with long stems. Crimson 10c, blue 10c, white 10c, mixed 10c.
- Comet** Beautiful with long curled petals resembling the Japanese Chrysanthemum, height 16 inches. Carmine 10c, pink 10c, blue 10c, mixed 10c.
- Giant Comet** Similar to the above but of stronger growth, 18 to 24 inches high. Pure white 10c, white and rose 10c.
- Giant Branching Comet** Very strong growth, 18 inches high, branching habit, flowers of large size on long stems. 10c pkt.
- Queen of the Market** The earliest flowering Aster, blooms three weeks in advance of the general run, flowers good size on long stems. Fine for cutting. Crimson 10c, pink 10c, purple 10c, white 10c, mixed 10c.
- Victoria** Magnificent bedding or cutting variety, flowers large beautifully imbricated, 1 1-2 ft high. Scarlet 10c, purple 10c, blue 10c, pink 10c, white 10c.
- China Mixed** Very fine, all colors 5c.
- Quilled Aster** Double or quilled petals, fine for bouquets. 2 ft. 5c pkt.
- Crown or Cocardeau** Very showy, double white center, mixed colors, 1 1-2 ft. high 10c pkt.
- Daybreak** Grand variety of symmetrical growth and habit. 18 inches high, globe shaped, double, delicate, pink tint. 15c pkt.
- Dwarf Chrysanthemum** Large flowering, dwarf, double, excellent for plants and pots. Mixed 10c pkt.
- Fire-Ball** Magnificent, double, brilliant, deep scarlet 10c.
- Japanese or Tassel** Entirely distinct, new pyramidal shape, 18 inches high, long stems, flowers five inches across, wavy twisted, needle shaped petals, very graceful. Mixed 10c pkt.
- Ostrich Feather** Magnificent, resembling the Comet, flowers of immense size of loosely formed petals, equaling the best Japanese Chrysanthemums. White or pink 15c each.
- Rose flowered** Large double, pyramidal, height 2 ft. Mixed colors 10c.
- Snow Ball** A beautiful distinct sort, short petals, pure white 10c.
- Washington** Splendid, very large, double, diameter 6 inches. White 15c.
- Perennial** Single, hardy. Does well in any garden soil. If sown early will flower in early season. 10c pkt.
- Bachelor's Buttons** (See Globe Amaranth).
- Balloon Vine** (Love-in-a-Puff) Rapid growing annual climber, white flowers, seed vessels look like miniature balloons. 5c pkt.
- Balsams** (Lady Slipper) Double, camellia flowered type, and old favorite, gorgeous brilliant colored, double flowers in great profusion, easily cultivated, 2 ft. high.
- Prince Bismarck** Salmon, pink, double, 10c pkt. Scarlet, yellow, violet and mixed each 5c. White 10c.
- Baptisia** (False Indigo) Beautiful, hardy, perennial, pea-shaped flowers on spikes 6 inches long, bright blue 2 1-2 ft. 5c pkt.
- Bartonia** Showy yellow flowers, very brilliant, cannot be transplanted. 5c pkt.
- Begonias** Fine bedding variety, equal to geraniums, sturdy growth, 1 ft. high, forming dense bushes completely covered with flowers from May until frost. Unequalled as pot-plants for winter flowering and will remain in bloom the entire year. Easily raised from seed. Double mixed 25c, single mixed 15c.
- Tuberous Rooted Begonias** Plants of great value for summer decoration or window gardening, bloom first season from seed if sown in February, transplanted as soon as weather permits, produce flowers the entire summer. Double mixed 25c, single mixed 25c.
- Ornamental Leaved Begonias** Beautiful, variegated foliage. Mixed 25c.
- Bellis** Double Daisy, very handsome spring-flowering plant. 5 pkt.
- Brachycome** (or Swan River Daisy) Dwarf, annual, profuse bloomer, pretty blue or white flowers. 5c pkt.
- Calceolaria** (Lady's Slipper) Ornamental plant with mass of beautiful pocket-like flowers, blooms early and very fine for decorating green-house or conservatory.
- Hybrida Grandiflora**, 20 inches high Mixed, 25c.
- Tigrina** Large tiger spotted brilliant colors 25c.
- Calendula** (Pot Marigold) Very showy, free-flowering until frost, hardy annual, grows in any good soil, fine for beds or mixed borders, fine for pot culture, height 1 ft.
- Meteor** Large double yellow, striped with orange 5c.
- Orange King** Large double orange red flowers 5c.
- Pure Gold** Fine Golden Yellow 5c.
- Mixed** per pkt. 5c.
- Pluvialis** (Cape Marigold) White daisy-like flowers, under side of petals lilac, 5c.
- Calliopsis** (See Coreopsis) Showy, free-flowering annual, blooms all summer, fine for cutting and massing. 5c pkt.
- Coronata** Large yellow, fine for bedding 5c.
- Golden Wave** (Drummondii) Large golden yellow with brown center, fine for borders. 5c.
- Tinctoria** Golden with garnet eye 5c.
- Nigra Speciosa** Crimson 5c.
- Campanula** (Bellflower) Favorite, hardy herbaceous with great profusion of bell flowers, thrives in light rich soil.
- Carpatia** Blue and white mixed, bloom the whole season, 6 inches 5c.
- Persicifolia Grandiflora** Fine hardy bell flowers 2 to 3 ft. blue or white. Mixed 10c.
- Canary-Bird Vine** (Tropaeolum Canariense) Handsome annual, rapid climber, charming little canary-colored blossoms bearing a fancied resemblance to a bird with wings half expanded 5c.
- Candytuft** (Iberis) A great favorite, fine for cutting, looks best in beds or masses. Sow in spring, will bloom until frost, very hardy, easily cultivated. Single plants look well and bloom profusely, 1 ft.
- Carmine** 5c.
- White** 5c.

Candytuft (Continued)**Crimson** 5c.**Empress** A complete mass of pure white flowers 10c.**White Rocket** 5c.**Lavender** 5c.**Mixed colors** 5c.**Perennial mixed** 10c.

Canna (Indian Shot) Without exception one of the handsomest bedding plants. Soak the seeds in warm water until they show evidence of swelling. When the second leaf is out pot singly and keep under glass until proper season for planting out. Mixed colors 10c.

Canterbury Bell (*Campanula Media*) Sgl. mixed 5c. Dbl. mixed 5c.

Cup and Saucer (*Calycanthema*) Fine white, blue and rose, resembling cup and saucer. 5c.

Carnation (See *Dianthus*) Great favorite for their delicious fragrance and richness of color, indispensable for winter or summer culture. Dbl. mixed. 10c.

Marguerite Carnations Very popular, as they begin flowering a few weeks from time of sowing, half dwarf, strong, requiring no support, produce long, strong stems, abundant, large double, beautifully fringed, highly-scented flowers.

Mixed colors 10c.

Castor Oil Bean (See *Ricinus*).

Celosia or Cristata or Cockscomb Varieties Free-blooming annuals, plant in light soil not too rich, grand for border and fine for pots.

Empress Combs of Colossal size, known to measure 45 inches from tip to tip; rich crimson 10c.

Glasgow Prize Dark Crimson 10c.

Dwarf 8 inches high, sometimes measure 2 ft. across 10c.

Mixed Dwarf 5c.

Centaurea Under this name is included the popular annuals like Corn Flower, Blue Bottle, Ragged Sailor, Sweet Sultans, etc. Great favorites, fine for cut flowers; white-leaved sorts, or 'Dusty Millers are largely used for bedding, vases, etc.

Sweet Sultans (*Centaurea Imperialis*) Beautiful, sweet-scented, strong stems, when cut will stand for several days in good condition of easy culture. Mixed colors 10c. Named colors 10c.

Giant Sweet Sultans (*Centaurea Oderata*) or Giant Cornflowers, easy to cultivate, flowers 2 to 4 inches in diameter, very graceful, sweet-scented.

Chameleon Pale yellow turning to a beautiful rose 10c.

Oderata Reddish lavender, very fragrant 10c.

Margaritæ White 10c.

Cheiranthus (See Wall Flower) Mixed 5c pkt.

Chrysanthemums Annual sorts, showy, effective garden favorites. Dbl. mixed 10c pkt. sgl. mixed 10c pkt.

Cineraria Seed may be sown from May to September in succession. Where only one sowing is made July should be preferred. Cinerarias grow so freely that the seedling may go straight from seed-pans to thumb-pots. For transplanting, plant in a cold frame facing north, if possible. When pots become full of roots shift into larger ones until the flowering size is reached.

Dwarf Mixed 25c per pkt.**Tall Mixed** 25c per pkt.**Double Flowering** 25c per pkt.

Stellata (Star Cineraria) A charming variety with large spreading panicles of starry flowers. Same colors as the common Cineraria. The grace and elegance of the plant and flowers make them very effective for house or conservatory decoration; especially fine for church decoration and very useful for cutting. 35c.

Cineraria (White Leaved Sorts)

Dusty Miller Fine for bedding and margins, valued for their beautiful, downy, silvery foliage, half hardy perennial; 2 ft.

Maritima Candidissima Silvery foliage 5c pkt.

Acanthifolia Silvery foliage 10c pkt.

Clematis Rapid-growing climber, fine for arbors and verandas. Seeds are slow to germinate, and should be soaked in warm water 24 hours; hardy perennial mixed colors. 10c pkt.

Clanthus (Australian Glory Pea) Beautiful, tender, perennial shrub with clusters of brilliant pea-shaped flowers, 3 inches in length, with large black blotch for center. 10c pkt.

Cobæa (Cups and Saucers Vine) A rapid climber. fine for trellises, arbors, etc., clings to any rough surface. Place seeds in the ground edgewise and cover with light soil.

Purple 10c pkt. pure white. 10c pkt.

Coccinea Indica (Scarlet-fruited Ivy-leaved Climber) Handsome, annual, gourd species with beautiful glossy ivy-like leaves, contrasting with the fine snow white bell-shaped flowers and bright carmine fruit. 10c pkt.

Coleus (Flame Nettle) An attractive foliage plant for house or garden, very interesting to grow from seed, easily raised; sow in March or April. 10c pkt.

Convolvulus (Morning glory) Climbing varieties, very popular and one of the most free-flowering, rapid-growing plants in cultivation; doing well in almost any situation, with beautiful brilliant flowers; annuals, 15 ft. Mixed colors 15c oz. 5c pkt. Dwarf per oz. 15c. 5c pkt.

Coreopsis (See *Calliopsis*) A very fine hardy plant with large, showy bright, yellow flowers, produced in great abundance from June until frost, especially fine for cut flowers having long stems and lasting in good condition a week or more. These grow from seed, flowering the first year if sown early. 5c pkt.

Cosmos Beautiful autumn-blooming plant, producing thousands of beautiful flowers in pure white, pink and crimson shades; fine for autumn decoration when other flowers are scarce. Sow in spring in open ground when danger of frost is over, or may be started under cover and transplanted. Set about 18 inches apart in rows or in masses in beds. When about a ft. high pinch the tops out to induce a bushy growth., 2 1-2 to 4 ft. in height.

Crimson, 5c.**Pink** 5c.**White** 5c.

Cosmos (Continued)**Mixed** 5c pkt.**Dwarf** 5c pkt.**Cucurbita** (See Ornamental Gourd)**Cyclamen** Charming plant with richly colored foliage, fragrant flowers. Great favorites for winter or spring. Sow in spring or autumn.**Persicum** Choicest mixed. 15c pkt.**Pure white, dark red, rose** each 25c pkt.**Cyperus** (Umbrella Plant)**Alterdifolius** Excellent for growing in water or damp places. Very ornamental house plant. 10c.**Cypress Vine** (Ipomaea Quamoelit) A favorite summer climbing annual, with feathery foliage and star-shaped flowers borne in clusters.**White** 5c pkt.**Scarlet** 5c pkt.**Rose** 5c pkt.**Mixed colors** 5c pkt.**Dahlia** One of the best late summer and autumn flowering sorts, very popular. The double sorts will bloom first season if sown early. Single will bloom first season if sown in the open ground. Many prefer the single sorts to Cosmos, having the larger variety of colors and longer season of bloom.**Double**, finest mixed 10c.**Single**, finest mixed 10c.**Single Tom Thumb**, dwarf, 1 ft. 10c.**Datura** (Trumpet Flower) Ornamental annuals, large showy flowers; 2 to 3 ft. Dbl. and sg 10c pkt.**Delphinium** (Perennial Larkspur) One of the handsomest hardy perennials, splendid flowers and curiously cut leaves; for permanent beds and borders they are indispensable.**Zalil** (Hardy Yellow Larkspur) Produces very long spikes of 40 to 50 sulphur yellow blossoms, each 1 inch in diameter; flowers from June to August, plant thrifty and bushy; 3 to 4 ft. 10c pkt.**Formosum** Popular for groups, tall spikes of dark blue flowers with white eyes; 2 to 3 ft. 5c pkt.**Nudicaule** Large scarlet flower; 1 1/2 ft. 10c pkt. **Mixed finest single** 5c pkt. mixed 10c pkt.**Dianthus or Pinks** A magnificent sort embracing some of the most popular flowers in cultivation, of great variety and brilliancy with profusion of bloom. The sorts classed as annuals may be sown out-of-doors when danger of frost is past. In a few weeks time they are a mass of bloom continuing until frost; 1 ft.**Double Annuals****Chinensis Fl. Pl.** (China or Indian Pink). Mixed colors 10c.**Heddewigi Fl. Pl.** (Japan Pink) Double mixed 10c.**Snowball** Double white, fringed, very fine 5c pkt.**Imperial Fl. Pl.** (Double Imperial Pink) Mixed 10c.**Salmon King** A double flowering variety, finely fringed flowers of a brilliant salmon color 10c changing as they fade to a salmon-rose; charming for beds or borders. 10c pkt.**Single Annuals** All single sorts have large flowers 2 to 4 inches in diameter, fine for beds or borders; 1 ft. high.**Heddewigi Nobilis** (Royal Pink) Beautifully fringed, colors run from white to dark red 10c**Heddewigi** (Japan Pink) 10c.**Laciniatus Fl. Pl.** (Double Fringed Pink) Large, double, showy flowers, with fringed edges and beautifully striped; mixed various colors. 5c.**Hardy Garden Pinks** The varieties are well adapted for beds and borders; delightful, refreshing, spicy odor, should be in every garden where cut flowers are wanted.**Semperflorens** (Ever-blooming hardy garden Pinks) Very beautiful, sweet-scented, double semi-double and single in great diversity of colors, mixed colors. 25c.**Dianthus** (See Carnation) Carnations are general favorites for their delicious fragrance and richness of colors. They are indispensable for the green-house in winter and the garden in summer. The Marguerite is one of the best for summer flowering.**Fine Double Mixed** The best for garden culture 10c pkt.**Marguerite** These are the most popular of carnations with the amateur, as they begin flowering within a few weeks from the time of sowing. Our strain is of semi-dwarf, robust habit requiring no artificial support, and produces on long strong stems an abundance of large double, beautiful fringed, highly scented flowers. Separate colors 10c. Mixed, all colors, Marguerite Carnation 10c.**Didiscus** Very pretty annual, blooms profusely from July to November, pale lavender blossoms excellent for cutting. 15c pkt.**Digitalis** (Foxglove) Handsome ornamental hardy perennial plant, easily grown, fine for shrubberies; 3 ft. Mixed colors. 10c pkt.**Dolichos** (Hyacinth Bean) Rapid annual climber with large clusters of handsome flowers producing later in place of flowers, pods of a deep purple, very ornamental, mixed colors. 10c pkt.**Dracæna** (Dragon Plant) Fine ornamental leaved plant. Mixed colors. 25c pkt.**Echinocystis** (Wild Cucumber Vine) Quickest growing vine known, fine for covering trellises, fences, etc. 5c pkt.**English Daisy** (Bellis Perennis) A favorite almost hardy perennial blooms from early spring until late in summer, easily raised from seed, 4 inches high. Dbl. mixed, finest quality 10c. Red, white or pink 10c.**Erigeron** (Flea-bane) An attractive, asterlike flower, 1 inch across, purplish-rose with golden center, hardy perennial, blooms first year from May until frost if sown early. 20c pkt.**Eryngium** (Sea Holly) Handsome ornamental, hardy plant 2 to 3 ft. high. Fine for drying for winter bouquets. 15c pkt.**Eschscholtzia** (California Poppy) Fine annual for beds, border or masses, bloom until frost; 1 ft. Sgl. mixed 5c pkt. dbl mixed 5c pkt.

- Euphorbia** Strong, tall, growing annual, attractive foliage. 10c pkt.
Forget-me-not (See *Myosotis*) 5c.
Four o'clock or *Mirabilis* 5c.
Fox Glove (See *Digitalis*)
Fuchsia (Lady's Eardrops) Well-known sort of easy culture, for house or garden, mixed colors. 25c pkt.
Gaillardia (Blanket Flower) Splendid showy annual, remarkable for profusion, size and brilliancy of flower, bloom until frost, fine for beds, borders or cutting; 1 1-2 ft. Mixed colors, annuals 10c pkt. Mixed colors, perennials, 5c pkt.
Geranium (*Pelargonium*) Double mixed, fine color 30c pkt.
Globe Amaranth (*Gomphrena*) Known as Bachelor's Buttons, fine bedding plant, flowers can be dried and be used in winter bouquets; 2 ft. mixed colors. 10c pkt.
Gloxinia A superb greenhouse sort with magnificent rich colored flowers; do best in equal mixture of peat, loam and sand, mixed colors. 25c pkt.
Godetia An attractive, hardy annual, profuse, showy flowers of varied colors; 1 1-2 ft. Mixed colors. 10c pkt.
Gourds Ornamental (*Cucurbita*) Rapid-growing, annual climbers, ornamental foliage; 15 to 20 ft. Mixed colors. 5c pkt.
Grasses, Ornamental These serve the double purpose of rendering mixed flower-beds or borders attractive in summer and for use in a dried state in winter bouquets, for large beds or groups on lawns, nothing gives a finer effect; largely used in public parks.
Arundo Donax (Great Reed) Hardy perennial. 10c.
Briza Maxima Fine for grass bouquets. 5c.
Bromus Brizaeformis Graceful, drooping perennial. 5c.
Coix Lachrymae (Job's Tears) Broad, cornlike leaves, annual. 5c.
Erianthus Ravennae (Hardy Pampas) Beautiful perennial. 5c.
Gynierum Argenteum (Pampas Grass) Perennial, blooms the second season. 10c.
Stipa Pennata (Feather Grass) Perennial, beautiful white, delicate begins to bloom the second season; 2 ft. 5c.
Gypsophila Pretty, free-flowering plant for rock work, edging, etc. Mixed colors. 5c pkt.
Helianthus (See Sunflower)
Helichrysum (Straw Flower) Fine, everlasting double flowers, fine for display; hardy annuals 2 ft. Mixed colors. 5c.
Heliotrope (Cherry Pie) Half-hardy perennial, flowering the whole season, very fragrant. Can also be trained as a greenhouse climber. Mixed colors. 10c.
Hibiscus (Marshmallow) Showy, perennial plant with large beautiful colored flowers; 1 1-2 ft. Mixed colors. 10c.
Hollyhocks One of the most majestic of hardy plants, so well known that it needs no further description.
 In separate colors. 10c.
 Choice single mixed colors. 10c.
 Choice double mixed. 10c.
Honesty (Moonwort Satin Flower) Hardy biennial, with silvery seed pouches, very attractive; 2 ft. 10c.
Humulus (Japanese Hop) Ornamental, fast-growing climber resembling the common hop. 10c
Impatiens (Sultans or Zanzibar Balsam) Charming plant for decorating greenhouse or dinner table, producing bright, waxy looking flowers. Mixed colors. 25c.
Ipomoea Climbers of very rapid growth, beautiful, varied flowers; for covering walls, arbors, stumps, etc.
Coccinea (Star Ipomoea) Small scarlet flowers 5c.
Bona Nox (Evening Glory) Violet, large fragrant flowers, expanding in the evening. 5c.
Rubra Coerulea (Heavenly Blue) Bright sky blue. 10c.
Grandiflora (Moon Flower) Blooms at night and on dull days, pure white flowers, 5 to 6 inches in diameter, rapid climber, 10c.
Job's Tears (*Coix Lachrymae*)
Kenilworth Ivy (See *Linaria*)
Kochia Tricophylla or **Burning Bush** 10c pkt
Lady Slipper (See *Calceolaria*)
Lantana One of the most desirable half-hardy perennials, constantly in bloom, verbena-like heads of orange, white, rose and other colors; 2 to 5 ft. Mixed colors 10c.
Imperial Japanese This variety without question the handsomest of all Morning Glories. Sow in good soil as soon as weather permit, a strong vigorous climber, flowers of gigantic size, remain open most of the day. The colorings are beyond description. Choice mixture 10c.
Larkspurs (See *Delphinium*) One of the best known garden flowers, hardy annuals
Dwarf Rocket 1 ft. Mixed colors 10c. Dbl. mixed 10c.
Double Stock Flowered Tall branching sort; 2 ft. 5c.
Lathyrus (Everlasting or Hardy Sweet Pea) Free-flowering hardy perennial climber continually in bloom. Mixed colors. 5c pkt.
Lavender (*Lavandula Vera*) Well-known, sweet-scented, hardy perennial; 3 ft. 5c pkt.
Linaria (Kenilworth Ivy) Charming small, hardy perennial, trailing plant. 10c pkt.
Linum (Scarlet Flax) A very showy bedding plant, brilliant scarlet, excellent bloomer, hardy perennial; 1 ft. 5c pkt.
Lobelia (Cardinal Flower) Popular flowering plant for pots, hanging baskets, etc. Bloom profusely from June to November, hardy perennial.
Crystal Palace Rich deep blue. 10c pkt.
Crimson, white or blue 10c pkt. Mixed colors 5c pkt.
Hardy Perennial Lobelias (Cardinal Flower) Brilliant scarlet; 3 ft. 10c pkt.
Lophospermum Beautiful climbing plant, trumpet shaped flower, 10 ft. 10c pkt.
Lupinus Ornamental free-flowering annual; various colored, pea-shaped flowers; 2 ft. 5c pkt.
Lychnis Handsome hardy perennial, easy culture, fine for beds and borders. Mixed colors 10c.
Marigold (See *Tagetes* also *Calendula*. French Varieties) An old favorite, free-flowering.
Double Yellow 10c pkt.

Marigold (Continued)**Single Yellow** 10c pkt.**Mixed colors** 5c pkt.**African varieties****Double yellow** 10c pkt.**Large African Tall**, double yellow; 2 ft. 5c pkt.**Signata Pumila** A dwarf, compact, bushy annual marigold with beautiful delicate fern-like leaves, densely covered with flowers of bright yellow striped brown: fine border plant. 5c pkt.**Matricaria** (Feverfew) Free-flowering, blooms until frost, hardy annual; 18 inches. Dbl white. 10c pkt.**Maurandia** Beautiful, slender-growing climber, half-hardy perennial; 10 ft. Mxd colors 10c.**Mesembryanthemum** (Ice Plant) Dwarf trailing plant of great beauty, blooming the whole summer, half-hardy annual; 6 inches. 5c pkt.**Mignonette** (Reseda) A popular favorite, sown in April and again in July, will keep up a succession of bloom until frost; also suitable for pots, very fragrant, (orange). 5c pkt.**Golden Machet** 10c.**Miles** Spiral spike; 8 to 10 inches long, very fragrant. 5c.**Improved red** 5c.**White** Very fragrant. 5c.**Sweet scented** Old popular variety, small spikes, very fragrant. 5c.**Mimosa** (Sensitive Plant) A curious, interesting annual with pinkish-white flowers, leaves close and droop when touched or shaken. 5c pkt.**Mimulus** (Musk Plant) Very showy, profuse-flowering plant, half-hardy perennial, blooms first year if sown early; 1 ft. 5c pkt.**Tigrinus** (Monkey Flower) Spotted variety. 5c.**Moschatus** (Musk Plant) Fine for hanging baskets, small yellow flowers, fragrant foliage. 5c.**Palustris** The true forget-me-not, beautiful blue flower; 6 inches. 10c.**Mirabilis** (See Four o'clock) 5c pkt.**Momordica** Very curious climber, ornamental foliage, fruit golden yellow, opens when ripe, showing the seed and its beautiful carmine interior, fine for rock-work, etc., annual 10 ft. 5c.**Morning Glory** (See Convolvulus)**Musa Ensete** (Abyssinian Banana) A splendid plant for open ground, producing a most striking effect when planted singly or in groups, thrives best in hot seasons, growing very large, 10 to 20 ft, especially when freely supplied with liquid manure. Seeds germinate easily if started in hot bed; tender perennial. 25c.**Musk Plant** (See Mimulus)**Myosotis** (Forget-me-not) A pretty, small, double, aster-like flower, half-hardy perennial, blooms first year if sown early, bright blue; 6 inches. 5c.**Nasturtiums** (Tropaeolum) For ease of culture, duration of bloom, brilliancy of color and general all around purposes nothing excels this popular variety. Plant in moderately good soil well drained, sunny position, quick growing and bloom profusely until hard frost comes. Tall Climbing Sorts. Crimson 5c, lilac 5c, yellow 5c, white 5c, purple 5c, rose 5c, mixed 5c.**Lobb's Climbing Nasturtiums** Scarlet, white, red. 5c each.**Tom Thumb** No collection of flowers should be without Nasturtiums, they grow so freely and afford such a variety of rich bright colors. As a cut flower there is nothing more effective, sweet-scented and pleasing in every way.**Tall** Varieties mixed. 10c oz. 5c pkt.**Dwarf** Varieties mixed. 15c oz. 5c pkt.

Our mixture of Nasturtiums is the finest in the country.

Nasturtium Dwarf Aurora, very fine 5c pkt,

" " Beauty, yellow and scarlet, 5c pkt.

" " Bronze, 5c pkt.

" " Cardinal (Dark scarlet) 5c pkt.

" " Cloth of Gold (Light foliage) 5c pkt.

" " Crystal Palace dwarf, 5c pkt.

" " Empress of India (Dark leaves) 5c pkt.

" " King of Tom Thumb, 5c pkt.

" " King Theodore, very dark, 5c. pkt.

" " Ruby King, 5c. pkt.

" " Flammulum, Grandiflorum, tall. Scarlet and yellow, extra fine, 5c pkt.

Nicotiana (Tobacco Plant) Delightful, sweet-scented, pure white tubular flower, blooming continuously; annual; 2 to 3 ft. 5c pkt.**Nigella** (Love in a Mist, or Devil in the Bush) A compact, free-flowering plant with curious looking flowers and seed-pods; of easy culture; hardy annual; blue and white mixed; 1 ft. 5c pkt**Ornamental Grasses** (See Grasses)**Pansies** Are so well known that no description is necessary. Sow early and transplant. Our pansies are imported direct from the grower and are equal to the best that are offered.

Fine mixture of leading shades and colors 10c.

Extra choice mixture of best large flowering varieties, 25c.

Giant Trimardeau Pansies

Fine mixed 10c.

Cardinal, fine scarlet, very showy 10c.

King of the Blacks 10c.

Golden Yellow 10c

Emperor William 10c.

Light Blue 10c.

Snow Queen 10c

Pure Yellow 10c.

Violas or Tufted Pansies While the Pansy Proper is a spring flower, violas flower throughout the entire season. Seeds sown in spring produce flowering plants by June which bloom until frost. Splendid mixed colors, fine varieties. 10c.

- Passiflora** (Passion Flower) Fine climbing plant for garden or greenhouse with a profusion of attractive flowers; mixed. 10c.
- Pentstemon** (Beard-Tongue) One of the most beautiful attractive herbaceous plants; bearing long graceful spikes of rich colored flowers: if sown early and transplanted in May will bloom in July until frost, half-hardy perennial; 2 ft. mixed colors 10c
- Petilla** Foliage a dark purple, annual; 2 ft. 5c pkt.
- Petunia** For outdoor decoration or house culture few plants equal the Petunia. Commence flowering early and continue a mixture of bloom until killed by frost, easily cultivated, requiring a good soil and sunny position.
- Superb** double fringed. 50c.
- Double Large Flowering** fine mixture. 25c.
- Single Varieties**
- Ruffled Giant** Very large, in great variety of colors 25c
- Fringed Giant**, Very fine. 35c.
- Snowball** Pure white. 10c.
- Striped and Blotched** Small flowering. 5c.
- Fine mixed, all colors. 10c.
- Phlox Drummondii** Of all summer flowering annuals this variety is unquestionably one of the most brilliant and satisfactory. Seed may be sown in open ground after danger of frost is past and in a few weeks the beds or borders are all aglow with their brilliant coloring until cut down by the frost. For early flowering they should be started indoors.
- Phlox Drummondii** Mixed colors. 5c pkt.
- White 10c, pink 10c, rose 10c, scarlet 10c, red 10c.
- Dwarf Phlox** This strain of dwarf, compact habit, makes a desirable pot plant, also for ribbon lines and massing; 6 inches high.
- Scarlet, white, pink, mixed colors 10c.
- Double Phlox** Especially fine for cut flowers, lasting better than the single sorts. Sow in light soils. Mixed colors 10c.
- Star Phlox** (Star of Quedlinburg) Dwarf, pretty star-shaped flower. Mixed colors 10c.
- Hardy Perennial Phlox** All colors, mixed 10c.
- Pinks** (See Dianthus)
- Poppies** An extremely popular brilliant flowering annual. Poppies should be sown where they are to remain, as they will not stand transplanting.
- Single Annual Poppies** Shirley's selected Strain 10c, scarlet 5c, white 5c.
- Blue Poppy** 14 inches high, producing many large tulip-shaped scarlet flowers 10c Single mixed 5c.
- Oriental Poppy** Perennial, exceedingly showy, scarlet with black centre. 10c pkt.
- Double Annual Poppies** Mixed colors 5c.
- Paeony Flowered** Large showy, double mixed colors 5c.
- Portulaca** (Sun Plant) Fine hardy annual, of easy culture, thrives best in rather rich light sandy loam and sunny situation, flowers of richest colors, blooming throughout the summer in great profusion, fine for beds, edging or rockwork; 6 inches. Sgl. mixed 5c. Dbl. mixed 10c.
- Primula** Charming beautiful Chinese Fringed Primrose, fine for winter or spring decorations. One of the most important winter-blooming pot plants, sow from March to May.
- White 50c pkt. scarlet 50c pkt. pink 50c pkt. crimson yellow eye 25c pkt. mixed colors 25c pkt. Double white 50c pkt. Double mixed 50c pkt.
- Primula** (Obconica Grandiflora) On single white, slight tinge of lilac. Everblooming. 10c pkt
- Pyrethrum** Handsome herbaceous plants of easy culture so much used for bedding edging etc.
- Aureum** (Golden Feather) Bright yellow foliage, 10c.
- Double mixed 25c, single mixed 10c.
- Reseda** (See Mignonette)
- Rhodanthe** (Swan River Everlasting) A charming annual; does well in a light rich soil and warm sheltered situation. Fine for pot culture, flowers everlasting. Mixed colors. 5c.
- Ricinus** (Caster Oil Bean) Ornamental plant of stately growth and picturesque flowers, brilliant colored fruit; fine for lawns or center plants for beds, mixed all colors. 5c.
- Philippiensis** 10 ft. 5c.
- Salpiglossis** (Painted Tongue) One of the greatest favorites among annuals. Partly on account of its easy culture, but mostly for its beautiful, almost orchid-like flowers. Mixed sorts 5c pkt.
- Salvia** (Flowering Sage) A favorite bedding plant, bearing long spikes of flowers in great profusion from July until frost, half-hardy perennial, blooms the first year from seed sown indoors and transplanted when weather permits.
- Splendens** (Scarlet Sage) Beautiful bright scarlet. 10c pkt.
- Patens** (Blue Sage) 5c.
- Scabiosa** (Mourning bride or Sweet Scabious) A very handsome and autumn border plant with great profusion of very double flowers. Splendid for table bouquet; hardy annual; 2 ft. Double mixed. 10c pkt.
- Scarlet Runner Beans** Great favorite of England and continent of Europe, not only as an ornamental climber, but for the delicious edible beans which succeed the bright scarlet blossoms. 5c pkt.
- Schizanthus** (Butterfly or fringe flower) Splendid annual with a profusion of various colored flowers; fine for greenhouse decorations and flower garden, of easy culture. Mixed. 5c pkt
- Smilax** (Myrsiphyllum Asparagoides) In many respects the Smilax is the most useful, and certainly one of the most graceful climbers; for bouquets and floral decorations it is indispensable. Soak seed in warm water for 12 hours and plant in pots. A tender perennial; white; 10 ft. 10c pkt.
- Solanum** (Jerusalem Cherry) Very useful pot plant for winter decoration, dwarf branching habit, leaves small and oval shaped, bearing in great profusion bright scarlet globular berries 1 ft. 10c pkt.
- Snapdragon** (See Antirrhnum)
- Stocks** (Gilliflower) The stock is one of the most popular annuals, either for bedding or pot culture, for brilliancy and diversity of color, fragrance, profusion and duration of bloom it is unsurpassed.

Stocks (Continued)

Large Flowering 10-Weeks Stocks Red 10c, blue 10c, pink 10c, purple 10c white 10c, yellow 10c, mixed colors 10c.

Cut-and-come-again 10-weeks stock Splendid perpetual blooming class. Sow March or April. They begin flowering in June, continuing until frost, and are especially valuable from September to October when other flowers are scarce. They throw out numerous side branches, all bearing fine double flowers. Excellent for cutting. White 10c, rose 15c, red 15c, blue 15c. Fine mixed colors. 10c pkt.

German Stocks Half-hardy biennial, double flowers; 2 ft. Mixed colors. 10c pkt.

Sunflower Remarkable for their stately growth, size and brilliancy, making a very showy effect among shrubbery and for screens. Single sunflowers are indispensable for cutting. Sow in a sunny spot in April or May. They come into bloom early in summer and keep up a constant supply of flowers until cut down by frost. 5c pkt. Single dwarf or miniature sunflower 10c pkt. Giant Sunflower, 8 ft. 5c pkt.

SWEET PEAS Ebeling's cream of the named Sweet Peas. This is a select list of giant-flowering varieties. We have discarded all small-flowering sorts and duplicates under different names.

America Crimson scarlet, striped on white, large size. 5c pkt. 10c oz.

Blanche Ferry Extra early. The popular pink and white. Comes into flower ten days earlier than others. 5c pkt. 10c oz.

Dainty Pure white edged with pink on the standards and wings. 5c pkt. 10c oz.

Dorothy Eckford The grandest, pure white; very large, producing enormous mass of blooms. 5c pkt. 10c oz.

Gorgeous Brilliant orange salmon. 5c pkt. 15c oz.

King Edward VII Bright red, giant flowering, very fine, strong stems. 5c pkt. 10c oz.

Lady Griseld Hamilton The finest pale lavender. 5c pkt. 10c oz.

Lottie Eckford White shaded lilac, white shaded and edged lavender blue. 5c pkt. 10c oz.

Lovely Warm rose, pink, large and extra fine. 5c pkt. 10c oz.

Navy Blue Deep indigo blue, medium size. 5c pkt. 10c oz.

Othello Deep maroon, very dark maroon, fine form and large size. 5c pkt. 10c oz.

Prima Donna Soft pink; a magnificent rich, pure pink; very fine. 5c pkt. 10c oz.

Prince of Wales The finest bright rose. 5c pkt. 10c oz.

Queen Alexandra Beautiful Scarlet, Very Brilliant, Handsome and desirable, 5c pkt. 10c oz.

Mrs. Eckford Light primrose, large size, semi-hooded form, of the best type. 5c pkt. 10c oz.

Sadie Burpee Pure white, large size, very fine. 5c pkt. 10c oz.

Double Flowering Sweet Peas Finest mixed colors. 5c pkt. 10c oz.

Sweet Peas Mixed Price, 5c pkt: 10c oz; 20c 1-4 lb; 60c lb. Our mixture of sweet peas are mixed under our personal supervision and contain all of the very best named sorts known to the trade, and we confidently offer them to most careful and critical buyers. A finer mixture cannot be found.

Spencer Orchid-Flowered Sweet Peas. The introduction of this type has created new interest and added to the popularity of Sweet Peas. They are quite distinct from the standard sorts, having large, round, open flowers, extraordinary size, measuring two inches across, wavy standards, wide spreading wings, a very large percentage bearing four immense blossoms to the stem, which is long and strong, making them of exceptional value for cutting. All have been thoroughly tested and are just as easy to grow as the standard varieties. 10c pkt. 20c oz.

Sweet Rocket (Hesperis) Old-fashioned garden plant, also known as Dame's Rocket and Dame's Violet; 2 to 3 ft. high, with spikes of showy white, lilac and purple fragrant flowers; fine for shrubbery and permanent border; mixed colors. 5c pkt.

Sweet Sultan See Centaurea.

Sweet William (London Tufts) A well-known attractive free-flowering hardy perennial, fine for beds and shrubbery; 1 1-2 ft. Sgl. mixed 5c. Double mixed 5c pkt.

Tagetes (See Marigolds and Calendula)

Signata Pumila A dwarf, compact, bushy, annual marigold with beautiful delicate fern-like leaves, densely covered with flowers of bright yellow striped brown; fine border plant. 5c pkt.

Thunbergia (Black-eyed Susan) Beautiful rapid-growing climber used especially for hanging baskets, low fences, etc., flowers in buff, white orange, etc., with dark eyes; mixed colors 5c pkt.

Torenia Fine annual; splendid plant for vases, hanging baskets, borders etc., blooming the entire season. Blue, white, and yellow. 10c pkt.

Tritoma (Red Hot Poker Plant) Readily grown from seed. Will bloom first year if sown early. Tritomas are becoming very popular for bedding plants and cut flowers; hardy perennial; 4 ft. Vary in color from light and deep orange, salmon and carmine. 10c pkt.

Tropaeolum (See Nasturtium)

Verbenas One of the most popular and free-blooming varieties and so well known that a description of this variety is unnecessary. Half-hardy perennial; easy of culture; sow early and transplant when weather permits. Fine for beds, baskets, rockeries, etc. Scarlet 10c, variegated 10c, white 10c, mixed colors 10c.

Viola (See Pansies)

Vinca (Madagascar Periwinkle or old Maid) Ornamental free-blooming plant, fine for bedding flower from seed the first season continuing until frost, or they may be potted and kept in bloom through the winter, 2 ft. Rose 10c, white 10c, mixed 5c.

Wall Flower (See Cheiranthus) Half-hardy perennial, 1 1-2 ft high. Mixed 5c pkt.

Wild Cucumber (See Echinocystis.) 5c pkt.

Wild Flower Garden 5c pkt.

Zinnias (Youth and Old Age) One of the most brilliant and showy of annuals. An old and continued favorite. The seed can be sown early and transplanted or sown later in open ground. They come into bloom early in summer, and continue until hard frost.

Dwarf double white, orange scarlet, rose, etc. 5c. Tall double mixed 5c. Dwarf single mixed 5c.

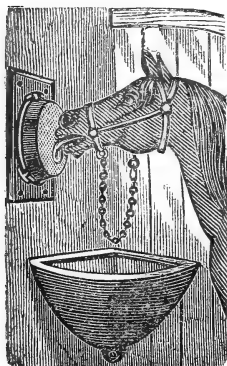
KEY TO TOOLS ON FOLLOWING PAGE.

No.	Price.	No.	Price.
1 Solid Shank Hoe.....	\$ 30	Knives.....	50 to 1 25
2 Notched Scuffle Hoe.....	1 00	38-39-40 English Pruning.....	
3 Narrow Hoe and Rake.....	50	Knives.....	50 to 1 50
4 Socket Common Hoe.....	35	41-42- Budding and Grafting	
5 Trowel Shape Weeding Hoe	75	Knives.....	50 to 1 25
6 Onion Hoe, "double end,"..	50	43 Grafting Chisel.....	75
7 Hoe and Rake, several sizes	25	44 English Pruning Hook.....	
8 Potato Hook, several sizes...	40 to 50	Knife.....	1 00
9 Secor Weeding Hook.....	10	45 Dibber for transplanting...	30
10 Large Plantation Hoe.....	50	46 Border Knives.....	60 to 1 25
11 Thistle Spud.....	50	47 Floral Sets of four pieces...	50 to 75
12 Thistle Spud for Lawns.....	50 to 75	49 Warren Hoe very practical	75
13 Pruning Shears, all kinds...	50 to 1 50	50 English and American....	
14 Hedge Shears, several sizes	1 00 to 1 75	Grass Hooks.....	25 to 55
15 Sheep and Grass Shears.....	50 to 1 50	51 Steel and Malleable Garden	
16 Border Shears with roller,		Rakes.....	25 to 60
or without.....	2 50 to 4 00	52 English Lawn and Grass	
17 Spud for Pulling Vegetables	1 00	Scythe.....	1 50
18 Dutch Hoe.....	1 00	53 English and American	
19 Patent English Scuffle Hoe	35 to 50	Spades.....	50 to 1 50
20 Onion and Celery Plow.....	2 50	54 Latest Pattern Steel Garden	
21 Tack Claw.....	15 to 25	Rakes.....	25 to 60
22 Pruning and Wood Saws...	90 to 1 00	55 All styles of Shovels; large	
23 Mattock, several sizes.....	50 to 75	and small.....	50 to 75
24 Transplanting Forks.....	10 to 1 00	56 Asparagus, Dock and Weed	
25 Wire Leaf Rake.....	60	Digger.....	50
26 Narrow Mattock.....	75	57 Weeders.....	50
27 Tree Pruners, several styles	1 00 to 3 50	58 Waters' Tree Pruner.....	1 00 to 1 50
28 Steel Trowels, all grades...	10 to 60	59 Steel Trowels.....	10 to 50
29 Flower Gatherer.....	50 to 1 00	60 Cleves' Angle Trowel.....	15 to 35
30 Lang's Patent Weeder.....	25	61 Watering Pot.....	25 to 75
31 Trellis, all sizes.....	15 to 2 00	62 Watering Pot.....	1 00
32 Double End Pruning Saw...	90	63-64-65-66 Weeders.....	15 to 30
33 Bill Hook.....	1 00 to 1 50	67-68-69-70-71-72 Thermometers	20 to 1 50
34 Garden Line and Reel.....	1 00 to 1 50	73 Pruning Saws.....	75 to 90
35 Grape and other Scissors....	25 to 1 00	75-76-77-78-79 Brass Syringes...	2 00 to 5 50
36 English Lawn Rake.....	75 to 1 25	80 Double Leaf Rake.....	65
37 Whittling and Pruning.....			

GALVANIZED WINDOW BOXES

No.	Height	Width	Length	Water Capacity	Price	No.	Height	Width	Length	Water Capacity	Price
0	6-in.	6	16-in.	1 qt.	\$1.50	6	8-in.	9½	33-in.	5 qt.	3.00
1	8-in.	9½	23-in.	2½ qt.	1.75	7	8-in.	9½	35-in.	5½ qt.	3.25
2	8-in.	9½	25-in.	3 qt.	2.00	8	8-in.	9½	37-in.	6 qt.	3.50
3	8-in.	9½	27-in.	3½ qt.	2.25	9	8-in.	9½	39-in.	6½ qt.	3.75
4	8-in.	9½	29-in.	4 qt.	2.50	10	8-in.	9½	41-in.	7 qt.	4.00
5	8-in.	9½	31-in.	4½ qt.	2.75						

Salt Cakes and Frames



For Horses, Cattle and Sheep.
Pure Refined Salt. Acts as a
tonic; invigorates the system; pro-
motes digestion; purifies the blood

25C. CAKE

Five Cakes for One Dollar

Frames, 25 Cents.

" THE "NORCROSS
ADJUSTABLE
GARDEN
CULTIVATOR.



Does the work easier and faster than
any Wheel Hoe. It is adjustable and
every part detachable. It works be-
tween rows, or centre tooth can be re-
moved and straddle the row.

Price \$1.00.



SEED AND GRAIN TRYERS.

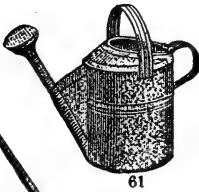
Large Taper Tryer, Steel Point, Nickled,	Price, \$1.25
Small Straight, " " Brass,	1.00
Small Straight, " " Brass, . . . . .	.75

A LIBERAL DISCOUNT TO THE TRADE

Note Our List of Poultry Supplies on Last Page.
Buy Your Whips, Cutlery and Hardware of us.



PRUNING SAWS.



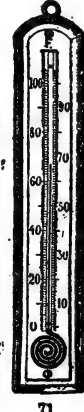
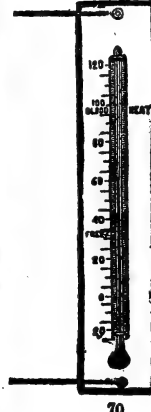
WATERING POTS.



WEEDERS.

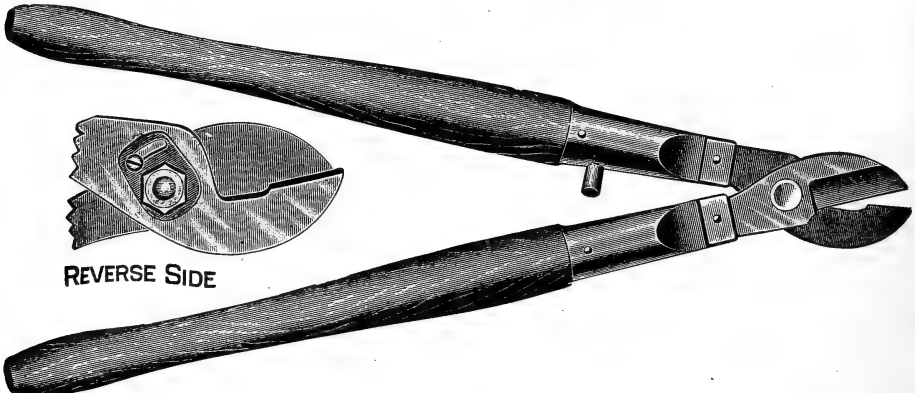


BRASS SYRINGES.



SELF-CLEANING LAWN RAKE.

CRONK'S WOOD HANDLE PRUNING SHEARS.



This Tree or Hedge Pruner, being made with notched hook, will work easier than any other pruner of this style on the market. The blades are made of best tool steel. The blades of No. 12 are made from fine cutlery steel; extra heavy and extra long. Has seamless steel ferules securely fastened to handles, and riveted to blades to prevent coming loose.

Price \$1.25

38 or More
Combinations to
Choose from



If wanted as Drill only, order No. 7, \$9.

Opens its own furrow, sows the seed, covers and rolls it, and marks the next row.

Saves your time and does the best job.

IRON AGE

WHEEL HOES AND GARDEN SEED DRILLS



No. 6. Fig. 114. Combined, Includes all Tools Shown, Price \$12.00

For market gardeners, they save time in their operation, save ground because you can plant close as crop will stand, save seed because of sure planting at any distance apart or in continuous rows as thick as you wish.

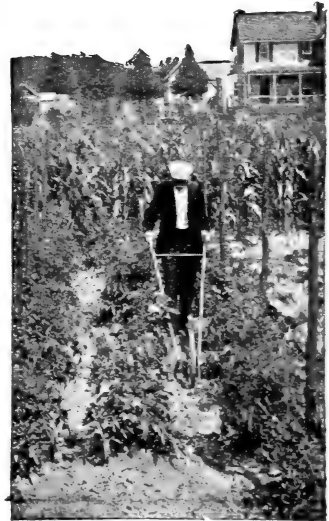
You can cultivate more thoroughly and more carefully than with a horse, and work with wheel hoes until first crop is harvested.

For home gardeners, they take away all of the drudgery of hard work and make garden cultivation into real pleasure and profit--better crops than you could have with the old-fashioned hoe. Your wife and children can operate them.



No. 1, in narrow rows of onions.

For Poultrymen, this is another means of keeping your chicks healthy and makes but little work--stir the soil in your chicken yard, also turn under a few oats and let them scratch for it.



An old gentleman cultivates this garden alone.

The No. 6. Combined, shown on this page is four machines in one--a hill dropper, drill seeder, double wheel hoe and single wheel hoe. Sows accurately any kind of small seed. Has force feed with brush agitator that does not injure the seed.

With the tools here shown you can hoe between or astride the rows, cultivate, furrow, cover, ridge growing crops, weed and level the ground. Its wheel hoe form is known as No. 1, shown on next page.

Ask for Iron Age Booklet "Gardening with Modern Tools"



This lady does her own work.

This is the only tool on the market that can be changed to double or single wheel, changes take but a few minutes. Steel pipe frame and steel wheels. Regular bicycle construction; light and strong. The 16 inch wheels ride furrows and holes easily and carry the frame high enough to pass over 20 inch plants when cultivating astride the rows. The work

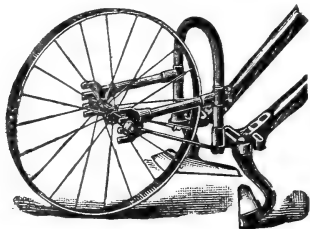
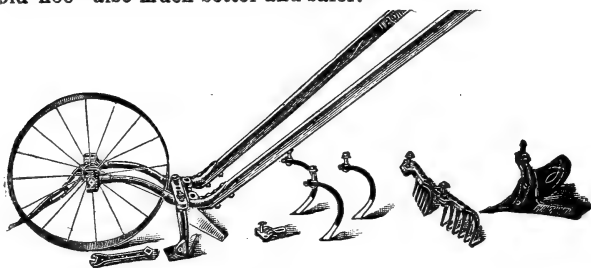
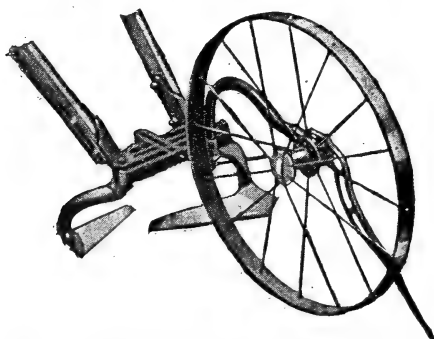


Fig. 76. Single Wheel form of No. 1

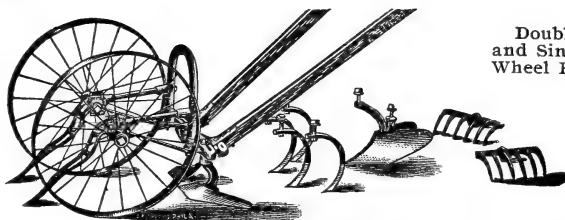
of this tool is described on previous page. The handles are adjustable for tall men or short boys. You can cultivate ten times as often as with the old hoe—also much better and safer.



No. 20 Single Wheel Hoe. Price, complete, \$6.00



No. 10. Single Wheel Hoe, with side hoes only, \$3.25



Double and Single Wheel Hoe

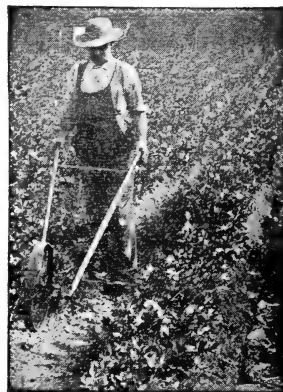
No. 1 Price, complete, \$7.00. With side hoes only, \$4.25

No. 20 Single Wheel Hoe

Takes all of the cultivating tools we show in connection with it, also hill and drill seeder attachment which makes it into

No. 15 combined Hill and Drill Seeder and Single Wheel Hoe, Price \$11.00.

If No. 20 is wanted with side hoes only, order as No. 21, \$4.00.



No. 20 Ridging Celery.

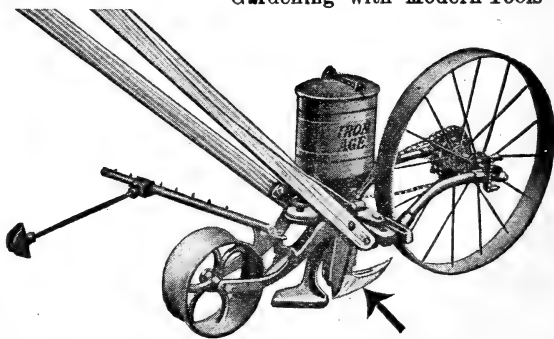
No. 10 Wheel Hoe

16 inch steel wheel, steel pipe wheel bracket, side hoes only. Is especially good in onions, hoes close without danger to the plants if the seed has been put in right.

No. 18-B Seed Drill

Sows the seed in very narrow row so that the plants can be cultivated close and save needless hand weeding.

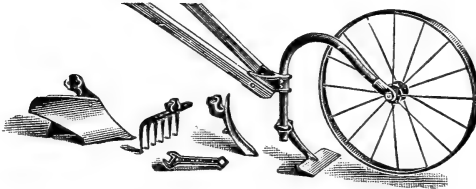
Ask for new Iron Age booklet, "Gardening with Modern Tools".



No. 18-B. Seed Drill, with special plow for onions \$7.50

IRON AGE WHEEL HOES AND DRILLS

Here we have No. 12 plowing the garden in deep, true furrows. Of course it will not do this in hard ground. This tool is low in price and within the reach of every mechanic and laborer. It does all of the necessary cultivating, weeding, furrowing, covering, ridging, etc., in a small kitchen garden. It is a very light tool, easily handled by anyone.

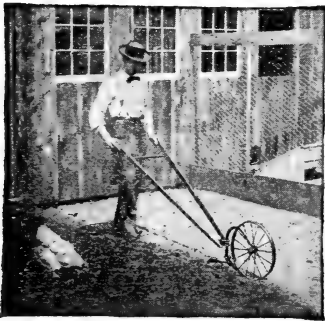


No. 12. Price, \$3.50

When fitted with plow only, this tool is known as No. 11. A fine tool to stir up the chicken yard. Makes the chicks healthy

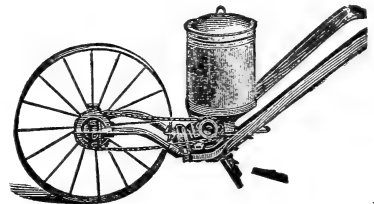


Plowing all of the garden with No. 12. Makes the chicks healthy



No. 25. Fertilizer Distributor

is made by putting a distributor attachment on No. 20 frame. Spreads fertilizer in a broad stream across an open furrow, or at one side of a growing crop, or each side. The same attachment will fit No. 1 Wheel Hoe. Handles all commercial fertilizers economically. Capacity of Hopper about four quarts.



No. 25. Price, \$8.00.

Attachment only \$4.50

New Model Seed Drill.

Price, \$8.00.



"NEW MODEL" SEED DRILL

Opens its own furrow, sows accurately in continuous rows, any thickness wanted, covers the seed, rolls the soil over it and marks the next row. Marker is adjustable. Index helps you to set right for sowing; flow of seed can be cut off instantly.

Combined Fertilizer Distributor, Hill and Drill Seeder No. 22

Handles all commercial fertilizers in proper manner. Separate plows open two furrows for fertilizer and covers follow each plow. Then, another plow opens a furrow for the seed which drops where it cannot touch the fertilizer. The seed is covered, rolled and next row marked in one operation. Practically the same seeder attachment as on no 6. Sows in hills or drills.

No. 23 is the plain form of this tool without seeder attachment—is used principally for side dressing.



No. 22 Combined Price, complete, \$18.

No. 23 Fertilizer Distributor only Price, \$13. Seeder Attachment only Price, \$5.

Ask for new Iron Age booklet "Gardening with Modern Tools"

IRON AGE HORSE HOES, HARROWS AND CULTIVATORS

These tools are built with long, all-steel frames, set high from the ground and they run steady and free from trash, etc. All can be purchased in their simplest forms—that is without wheel or lever expander and equipment as needed.

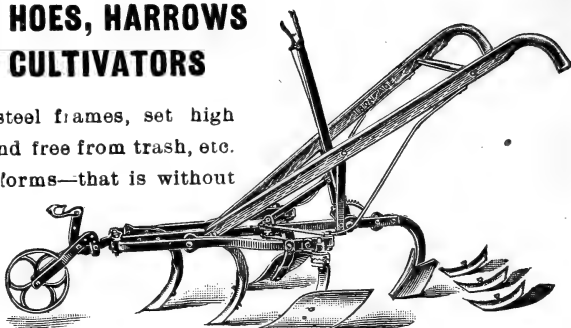


Fig. 100. No. 6, with plain wheel, \$5.75. Expands 1 to 30 inches. Price, with lever wheel, \$6.25.

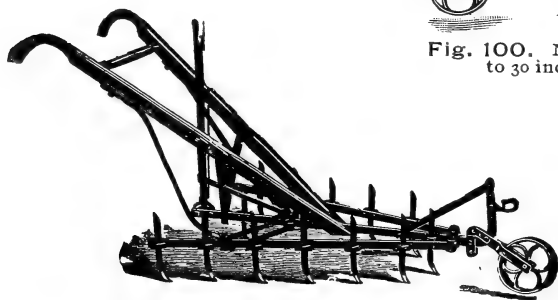
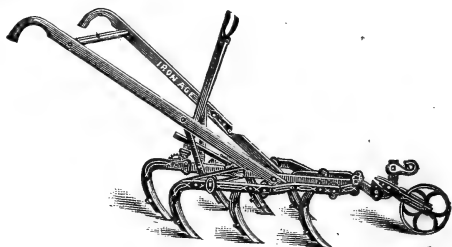


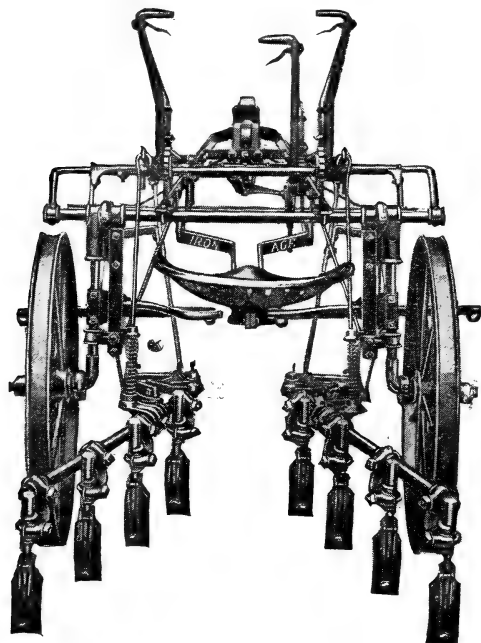
Fig. 106. No. 1 Harrow and Cultivator. Price, \$5.00.

No. 1 Harrow. Has 14 diamond shaped steel teeth with small cultivator point forged on one end. Adjustable for depth and angle.

No. 1 Cultivator. A tool of this kind is needed for first workings or for level cultivation. 7 two-inch teeth are used, they run deep but throw small furrows.

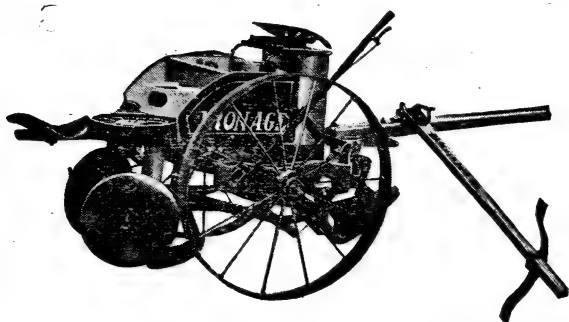


Steel Frame Riding Cultivators



Steel frames, steel pole connections, steel single-trees, nothing of wood but the pole and neckyoke. Pivot wheel machines, easily guided especially on hillsides. No. 878, 886, 898 have 32 inch wheels and represent 8 hoe pivoted round bar gang, 6 hoe flat bar gang and 8 hoe zig-zag flat bar gang machines. Adjustment of gangs for rows 28 to 48 inches. Adjustment of teeth for depth or angle. Levers control adjustments while machine is in motion but the teeth always face the same way as adjusted for your work. No matter which way the gang lever is moved, spring pressure keeps the teeth in the soil. Furnished with break pin hoes but can be fitted with spring hoes or spring teeth. Nos. 608, 626, 638 are our high pivot wheel machines, 42 inch. Wheels can be set to accommodate rows 39 to 50 inches apart and this is the range of cultivation. In other respects similar to the low wheel machines.

Ask for IRON AGE booklets, for HORSE HOES, HARROWS and CULTIVATORS, also RIDING CULTIVATORS



No. 1. With Fertilizer Attachment, \$78.00

per acre. The time of the man or boy on the rear seat costs \$2.00 per day or less and he can save \$5 to \$50 on every acre. Boy earns his way ten to twenty times over. Machine does the planting—he makes corrections only.

Price without Fertilizer Attachment, \$68.00.

Ask us for the planter booklet

Shipped ready to use on
any wagon, cart, sled, etc



No. 190. Price, \$20.00.

BARREL, BUCKET and POWER SPRAYERS

For every purpose, from the spraying of a small bush in your yard or the plants in your garden, white-washing a hen-house or applying cold water paint, to spraying small or large patches of potatoes, tomatoes, pickles, cantaloupe, etc. and large and small orchards.

We show here but one of 40 or more combinations. No. 190 has outside pump, which means no corrosion, easy to get at and more pleasant to handle. 100 to 125 pounds pressure with two nozzles. Hemp packing with lead core and bronze ball valves—both easy to get at, 50 gallons capacity. Single or double acting pumps.

We have also Bucket Sprayers, Knapsack Sprayers, 20 gallon Barrel Sprayers, 100 gallon Horizontal Tank Sprayers, 50, 100, 150 and 250 gallon Power Sprayers and Traction Sprayers.

55 gal. Steel
Tank
Wood Wheels



No. 102, Price \$73.00

Wind Shaft and Strainer Bucket with
each machine

Single
Acting
Pump

Nozzle Strainers
with each
machine

Ask for booklet, "Saving Vines, Trees and Bushes"

The Three Greatest Insecticides

SIMPLE, EFFECTIVE, ECONOMICAL

LIME AND SULPHUR---PYROX---ARSENATE OF LEAD

BOWKER'S LIME AND SULPHUR

Every spring when the buds are swelling, but before they show green at the tips, all your fruit trees, vines and shrubs of every kind should be sprayed with our Bowker's Lime-Sulphur. Applications made later than this may burn the foliage and cause serious injury. Therefore you should order early and be prepared for the season.

SPRAYING WITH LIME-SULPHUR IS CHEAP INSURANCE

It's better than most insurance because every time you spray you reap a benefit, whether you have San Jose Scale present or not. It kills all forms of scales and bark lice which are always present, the leaf blister mite, the eggs of many insects and the fungus spores which are lodged on the bark. It checks the growth of mosses and lichens and cleans up the trunk and the large branches.

Lime-Sulphur is not a poison and kills only by coming directly in contact with the insect. It does not kill leaf-eating insects. Spray for these with our Pyrox.

Our Lime-Sulphur has fungicidal properties and is invaluable for use on peaches, plums and all stone fruits.

It's in concentrated solution, always ready for Fall, Winter and Spring use. You simply add spring water and then spray.

ANALYSIS—Gravity (Beaume) 33.50 to 36.50; total Lime and Sulphur 35 to 41 per cent.

1 gal. 75c.; 5 gal. \$2.25; 10. gal. \$4.00; 25 gal. \$6.50; 50 gal. \$12.00.

BOWKER'S PYROX--KILLS AND CURES

Pyrox sticks like paint; kills **all leaf-eating insects**, and **prevents disease** on potatoes, fruit trees, shade trees, and small fruits and vegetables. It serves the purpose for which two mixtures were previously used, and has done so for over ten years. Pyrox is no experiment; it was introduced in 1898.

It combines non-burning Arsenate of Lead with non-burning Bordeaux Mixture—both thoroughly tried-out remedies—in the shape of a dense, heavy, creamy paste that looks like paint, is easily mixed with cold water, and sticks like paint to the foliage. It won't wash off.

Bowker's Pyrox is something more than a combination of Arsenate of Lead and Bordeaux. It is a mixture with reliability and brains behind it; a mixture with laboratory and field experience to support it; a mixture made by careful methods in a modern plant under expert supervision. Such a combination costs more to make and is worth more to buy because of the insurance the name affords against haphazard preparations. Paris Green and Bordeaux applied together or separately never adhere through heavy rains like Pyrox. Frequently our customers send us sample leaves from trees sprayed in May or June that show plenty of Pyrox adhering in October.

It Won't Wash Off. If it were not for the new growth coming along, as is usually the case with shade trees, fruit trees, shrubs, potato vines, etc., and which of course must be protected, one spraying would be enough for the season. **1 lb. 25c.; 5 lbs. \$1.00; 10 lbs. \$1.75; 25 lbs. \$4; 50 lbs. \$7.50.** If you use 100 pounds or more, write to us, stating amount, and get special price.

JAMESVILLE, N. Y., Jan. 16th, 1912. Mr. F. H. Ebeling—Dear Sir: The Pyrox I purchased from you gave splendid results on apples, cherries, currants and plums. I found it greatly increased the keeping quality of apples. Have never had better returns for the money invested.

Respectfully yours,

EMMETT RANDALL.

INSECTICIDES.

Arsenate of Lead, 1 lb. 25c; 5 lbs. \$1.00; 10 lbs. \$2.00; 20 lbs. \$3.75.

Black Stuff, Tobacco Powder, per lb 10c.

Bug Death, 1 lb. 15c; 3 lb. 35c; 5 lb. 60c; 12 1/2 lb. \$1.00; 10 lb. \$7.00.

Carbolium, 1 or 2 gals. \$1.25 per gal.; 3 gals. \$1.15 per gal.; 5 or 10 gals. \$1.00 per gal.

Cooper's Sheep Dip, pkg 50c, \$2.00.

Eureka Fumigator, \$1.25.

Eureka Weed Killer, per can \$1.50.

Fir Tree Oil Soap, per pkg. 30c.

Fir Tree Oil, 1-2 pint, 75c; pint, \$1.00.

Heliebore, per lb. 25c.

Jumbo Powder Gun, 25c.

Kerosene Emulsion, 35c., \$1.00.

Lambert's Death-to-Lice, 10c., 25c., 50c., \$1.00.

Lime-Sulphur, see page 9.

London Purple, per lb. 40c.

Nico-Fume, Liquid, 1 gal., \$10.50; 1-2 gal., \$5.50; pt., \$1.50; 1-4 pt., 50c.

Nico-Fume Tobacco Paper, 288 sheets, \$6.50; 144, \$3.50; 24, 75c.

Nicoticide, 1-2 pt. \$1.25, pt. \$2.50.

Paris Green, 30c.

Persian Insect Powder per lb 50c.

Pyrox, 1 lb. 25c; 5 lbs. \$1.00; 10 lbs. \$1.75; 25 lbs. \$4.00; 50 lbs. \$7.50.

Slug Shot, 1 lb. carton 15c., 5 lb. 30c.

Sulpho Tobacco Soap, 10c and 20c.

Tobacco Dust, lb. 10c.

Tobacco Soap per pkg 25c. and 50c.

Tobacco Stems, lb. 5c., per bale, \$2.50.

Weedicide, per gallon, \$1.50.

Whale Oil Soap, 10c., 15c., 25c.

Whale Oil Soap in bulk, per lb. 6c.

Whale Oil Soap and Tobacco, 1 lb. 15c; 5 lbs. 60c.

SLUG SHOT—It is a light, composite, in-



palpably fine powder, easily distributed by Duster, Bellows, or in water by spraying. It is thoroughly reliable in killing Currant Worms, Potato Bugs, Cab-

bage Worms, Lice, Slugs, Sow Bugs, etc., and is also strongly impregnated with fungicides.

CARBOLINIUM

Insecticide and wood preserver.

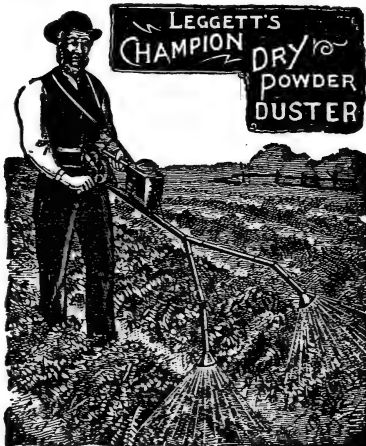
Per 1 gallon,	\$1.25
" 5 "	1.15
" 10 "	1.00

Special prices for larger quantities.

CHAMPION DRY POWDER GUN

Price

\$7.50



A wonderful invention. Light, swift, safe strong and cheap. Dusts the pure green. Kills all the bugs and pests without injuring the vines or foliage. Less green used and better results obtained.

Sterlingworth Whale Oil Soap and Tobacco.

Sterlingworth Whale Oil Soap and Tobacco is a most effective, reliable, simple and cheap preparation for destroying San Jose Scale, Plant Lice and all sucking insects on trees, shrubs, plants, vines, rose bushes, etc. The efficiency of this Soap is further increased by the addition of tobacco extractive matter and potash. The preparation thus compounded possesses all the virtues of Whale Oil Soap, and, in addition, the valuable insecticide properties of tobacco and potash, making it doubly valuable. Full directions on each package. Price, 1 lb box, 15c.

Remedy for Cut-Worms on Cabbage and Tomatoes.

Soak bran with Paris green and scatter same in the rows. This will destroy this troublesome pest.

To Destroy Ants in Hills, Etc.

Inject bi-sulphate of carbon in the hills. This will destroy them promptly.

SULPHO-TOBACCO SOAP



Quickly exterminates all insect life on plants or flowers in and out of doors. Unsurpassed for rose bushes. For a cheap, effective, clean and harmless insecticide this is unexcelled. It also acts as a valuable fertilizer reviving plant life. For domestic purposes it rids the house of cockroaches, and is a superior wash for dogs and all animals. Prevents poultry lice. You cannot afford to be without this popular and

well known insecticide, if you desire to be successful in plant culture. A trial will give highly gratifying results.

3-oz. Cake, sufficient for 1 1-2 gallons prepared solution, 10c; mailed postpaid 13c.

8-oz. Cake, sufficient for four gallons prepared solution, 20c; mailed postpaid 28c.

With every order we enclose free a booklet "The Window Garden" giving valuable information of Plants, and exterminating of Insects.



Pat. March 16 and Nov. 9, 1899.

BUG DEATH.

This Insecticide and Plant Food combined has been on the market for ten years. While the first cost to kill the bugs on an acre of potatoes is rather more than the arsenical insecticides, the extra yield of marketable potatoes has more than paid the entire expense. It is non-poisonous, which makes it perfectly safe to use on all plants or vines. BUG DEATH PREVENTS BLIGHT.

Put up in Packages as Follows.

1 pound package,	\$.15
3 " " . . . .	.35
5 " " . . . .	.50
12 1-2 " "	1.00
100 " "	7.00
Dickey Bug Death Duster, . . . .	.25

SWIFT'S STANDS FOR QUALITY

POISON ARSENATE OF LEAD



REG. TRADE MARK

INSIST ON HAVING SWIFT'S

1 lb. 25c.; 2 lb. 50c.; 5 lbs. \$1.00

It destroys leaf-eating insects.

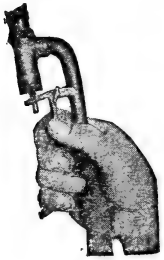
It stays well in suspension.

It will not wash off like Paris Green.

It is ready to mix and sure to kill.

It cannot clog the pump.

Description of "Auto-Spray" No. 1



This invention is without doubt the most important ever made in the line of spray machinery. Its many novel features make it a thoroughly practical machine for all limited uses, and it is even used with great satisfaction in many large operations.

The "Auto-Spray" No. 1, when properly charged, contains three gallons of solution and one gallon of compressed air. Eight to twelve strokes of the plunger will compress the air and two pumpings will discharge the entire contents. Three gallons of solution, or one charge, will easily cover one-quarter acre of potatoes or other similar crop.

Endorsed by more than 200,000 satisfied customers.

Note our broad guarantee.

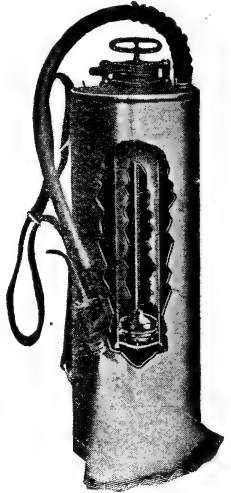
WE WARRANT THE "AUTO-SPRAY," NO. 1, TO BE PERFECT MECHANICALLY AND TO GIVE SATISFACTION IN EVERY CASE, AND WILL REFUND THE PURCHASE PRICE TO ANY DISSATISFIED CUSTOMER WITHIN TEN DAYS AFTER RECEIPT OF MACHINE.

The "Auto-pop" is an automatic valve which is closed by the air pressure used to operate the "Auto-Spray." A lever is moved by simply closing the hand, thus opening the valve and allowing an instantaneous discharge of spray. By releasing the lever it closes itself automatically, hence the spray is in perfect control. The value of the "Auto-pop" is most apparent in spraying potatoes, tobacco, small fruits, etc., where only enough is used to spray each plant or vine. This is a wonderful saving over the continuous spray because it requires pumping only half as often and the solution goes twice as far.

The "Anti-Choke" Nozzle always furnished with this Sprayer, is the only nozzle which cleans itself automatically and can never clog.

The "Auto Spray," No. 1, is also equipped WHERE SO ORDERED, with extension piping and elbow extension. The extension pipe is used in reaching tall trees and the elbow extension is useful in reaching the under side of melon, cucumber and strawberry leaves

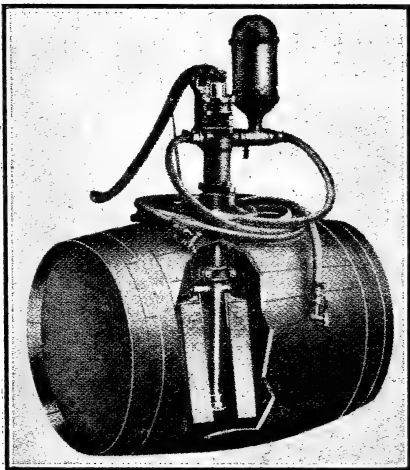
Price of Extension Rod, \$7.50.



GOULD'S STANDARD SPRAYER

LARGE CAPACITY, BRASS LINED CYLINDER, BRASS VALVES, LARGE AIR CHAMBER.

Comes with 15 feet Double Hose.



The "Standard" Sprayer is made in two sizes, one with 2 1/2 inch cylinder, the other with a 3 inch cylinder. The cylinder is brass lined, the plunger brass encased and the valves are all brass, making all working parts proof against the spraying mixtures. The plunger is easily repacked without taking the sprayer to pieces, and is unusually large, known as a "differential" plunger, which produces a continuous stream of liquid from the nozzle, similar to the action of a double acting pump. The base is made so as to fit either the end or side of a barrel. The lever is long and powerful, making the labor easy. There are two discharges provided, but when sprayer is ordered without hose or nozzle, we plug one opening and fit the other with brass bushing and half coupling for hose. The price includes a brass strainer for suction pipe, but does not include suction pipe or agitator.

Can be used for spraying whitewash.

Price \$12.50

FOREST CITY BALL BEARING



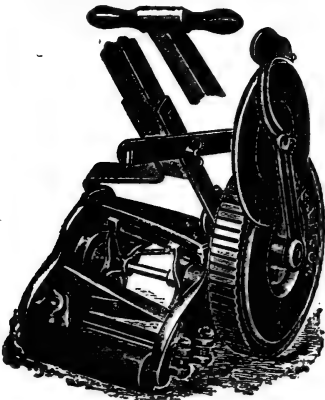
Dunham Lawn Rollers
ROLLER BEARING

Are infinitely superior to other rollers. In efficiency, being 44 per cent. lighter running than any other roller on the market by actual tests. With a Dunham a boy can do the work that requires a man's strength with other rollers of the same weight. 200 lbs. \$10; 250 lbs. \$11; 300 lbs. \$13

Water-weight Roller

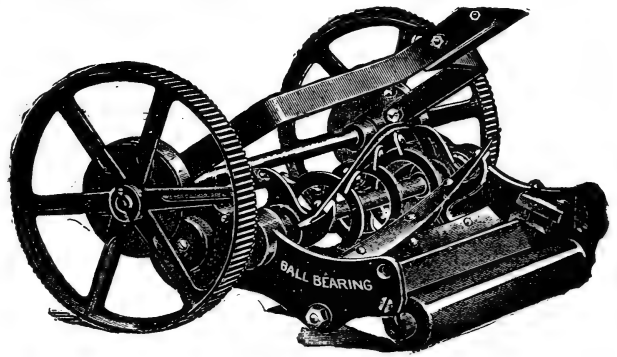
The Dunham Ball-bearing Water-weight Roller is made in one section and electric-welded, no rivets being used so the water cannot possibly leak out. The weight of this roller can be increased or diminished by increasing or decreasing the water. Very simple and easy to handle and revolutionizes the work of rolling. When not in use the water can be let out if desired. Price \$13.00.

Capital Lawn Trimmer



For trimming around walks, flower beds, trees, posts, monuments and shrubbery, and all places that cannot be reached with any lawn mower. Cuts within one fourth of an inch of the edge.

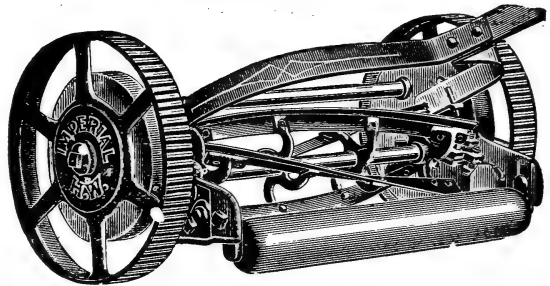
Has a revolving cutter with four crucible steel blades, tempered in oil and cuts six inches wide



This unquestionably is the Best BALL BEARING MOWER on the market. Perfect in detail, absolutely guaranteed.

15 inch	-	\$16.00	19 inch	-	\$12.00
17 "	-	11.00	21 "	-	13.00

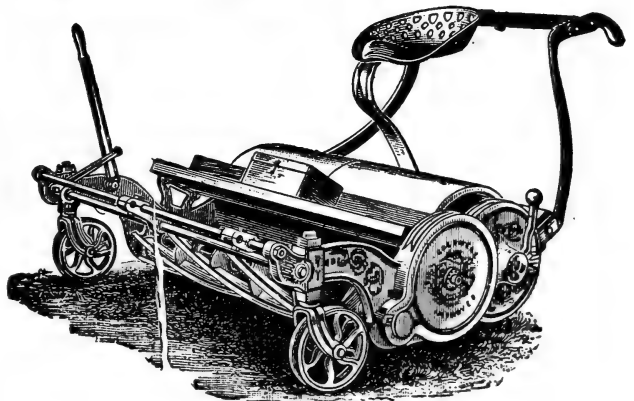
HIGH WHEEL IMPERIAL



Absolutely Warranted for Two Years. Positive Adjustment Has no Equal. In Public Parks, Private Lawns and Cemeteries everywhere. Ask for Special Catalogue.

16 inch	-	\$ 9.00	20 "	-	12.00
18 "	-	10.00	22 "	-	13.00

IMPERIAL HORSE LAWN MOWER



PRICE, \$55.00 AND UP.

Absolutely Guaranteed to Cut Clean in turning around. Send for Catalogue.

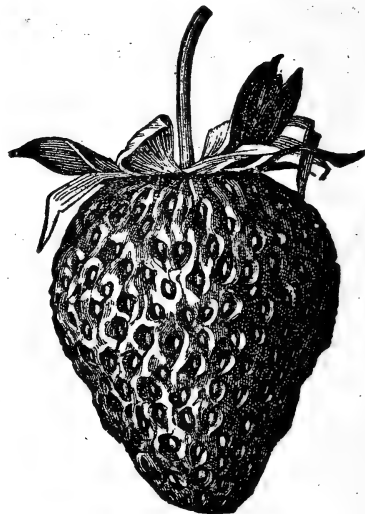
SPRING PLANTS, BULBS AND ROOTS.

	PER DOZ.		EACH	DOZ.		EACH	DOZ.
Cauliflower Plants	25 cts	Salvia	.10	1.00 "	For-get-me-not	.10	1.00 "
Cabbage	10-25 "	Alyssum	.10	1.00 "	Dracaena	.10	1.00 "
Tomato	25 "	Aster		.85 "	Petunia		.50 "
Egg Plant	50 "	Vincas	.15	1.75 "	Pansy		.40 "
Pepper	25 "	Verbenas	.05	.50 "	Beautiful Japanese Fern		
Kohlrabi	"	Geraniums	.10	1.00 "	Balls each	50 "	
Root Celery Plants	"	Assorted Plants	.10	1.00 "	Porch hanging baskets		\$1.25
Sweet Marjoram	"	Cannas	.10	1.00 "	to \$2.00		
Sage Plants	"	Soap Dragon	.08	1.00 "	Moss for hanging	.15	per lb.
Summer Savory	"	Ten-Weeks Stock	.10	1.00 "			
Thyme	"	Double Lobelia	12 1-2	1.25			

Caladiums, Gladiolas, Dahlias, Tube-Roses, Tuberous Begonias, Maderia Vines, Peonies, Gloxinias.

FLORISTS' SUNDRIES

Self Registering Thermometers	Hanging baskets
Tin Foil	Flower Supports
Green Moss	Plant Stands
Florist Letters	Trellises
Raffia and Reed	Shears
Immortelles	Scissors
Mastica	Fine Cutlery
Plant Lables	Syringes for Plants
Fumigators	Flower Pot Brackets
Bulb Syringes	Sharpening of Shears, etc.
Glazing Points	Lawn Seed and Fertilizers
Flower Pots	Bird Supplies
Hyacinth Glasses	Wire Plant Supports
Silkline, per spool, 30 cents	



STRAWBERRY PLANTS

We are pleased to announce that we can furnish choice thrifty STRAWBERRY and RASPBERRY Plants of all the leading varieties and recommend them to our customers. Strawberry Plants 75c per 100; Raspberry Plants \$1.50 per 100. Leave orders early.

BERRY BASKETS.

Under the new law all Berry Baskets must be made up to the standard size. We offer Berry Baskets of correct size and shape and well made. Prices right. Our Baskets fit the Crate perfectly. We can save you money on berry baskets if you place orders early. Call and see us before buying.

GRAPE BASKETS

We carry a large stock of Grape Baskets at the lowest market price.

\$3.00

\$2.00

\$1.50

FLOWER TUBS \$1.50 TO \$4.00



Flower Pots, Hanging Baskets, Fern Pans, Lily Pans

TRELLISES,
URNS, VASES,
SETTEES.

We offer a fine variety of styles in various sizes suitable for lawns front, yards, cemeteries, parks etc. These can be furnished to order on short notice, at reasonable prices. For full particulars, write or call and see us.



MASTICA FOR GLAZING GREENHOUSES, SASHES,

Etc., new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold.

Every green house man has experienced difficulty in using putty for glazing, that is satisfactory for any length of time. Putty is not adapted for greenhouse work. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance, and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of re-laying the glass.

The use of "Mastica" avoids the necessity of repeatedly reglazing the houses, saving much time and expense. With "Mastica" you can bed in or use outside with machine.

Broken glass can be easily removed and replaced by new without the breakage of other glass, which usually occurs with hard putty. One gallon will cover about 290 running feet (one side.)

Price of Mastica $\frac{1}{2}$ gal. 65c., gal. \$1.25. We are Sole Agents for Central New York.



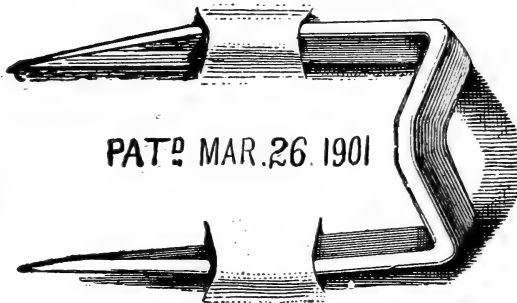
MASTICA
GLAZING
MACHINE.

PRICE \$1.25.

THERE ARE OTHERS
BUT NONE LIKE

THE PEERLESS
GLAZING POINT

A new name and a
new point.



PAT. MAR. 26. 1901

A Few of its
Good Points.

No raising up when driven. No Rights. No Lefts. No Sliding. No Trouble to apply.

Cheap. Indestructible Once used, always used. Try them once

PRICE 60c per 1000



Waters Tree Pruner
75c to \$2.00

Climax Handy Weeder



The greatest "little" device ever invented.

Nothing like it.

Thousands in use.

PRICE, 75 CENTS

OUR F. G. F. PRUNING SAW.



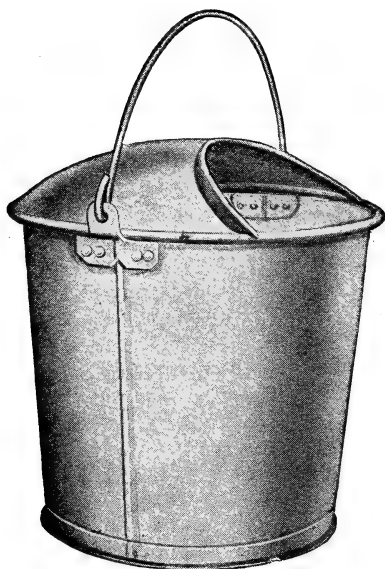
This is a very practical Pruning Saw, and is recommended by the Nurseries and Horticultural Societies everywhere. It is a self-feeding draw out blade with a thin back that will not pinch or bind; may be attached to a pole, permitting very rapid work. It will do three times the work of hand saws or shear trimmers. It has no equal for cutting out suckers and for trimming the outside and tops of trees so difficult to reach. No stubs are left. It covers all the features required for an up-to-date labor-saving tool.

Price \$2.00.

MILKMEN AND DAIRY SUPPLIES.

Quart Milk Bottles	\$.70 per doz.	Wholesale Cans, all sizes	\$.40
" " "	7.00 per gross	Strainer Pails	.65 to .75
Pint " "	.60 per doz.	Pint Dippers - - -	.25 to .45
" " "	5.50 per gross	Quart Dippers - - -	.35 to .50
Half Pint Milk Bottles	.50 per doz.	Strainers - - - -	.50 to 2.00
" " " "	4.25 per gross	Tin Milk Pans, per doz	1.50 to 3.00
Milk Cans 50 quart	4.00	Tin Milk Pails, all sizes	.30 to .75
" " 40 "	3.00 " "	Sprinkling Pots, "	.25 to 1.25
" " 30 "	2.75 " "	Excelsior Strainers - -	2.50
" " 20 "	2.50 " "	"Our Own" Strainers -	2.00
Milk Caps - - - -	.25 per 1000	Aerators - - - - -	5.00 to 7.00
Carrying Cans, all sizes	.50 to 2.25		

MILK'S SANITARY PAIL



This Sanitary Pail combines nearly all of the good points that are contained in the many kinds put on the market in recent years, and is highly recommended by the Boards of Health and the State Milk Inspectors. A trial will convince. Price, \$1.75.

MILK FEVER OUTFIT.

For Sterilized Air Treatment.

This treatment has cured 97 per cent. of all cases treated. This treatment is recommended by the Bureau of Animal Industry, United States Government, Department of Agriculture.

The outfit consists of the instrument, a roll of tape, a package of carbolized cotton. Full directions, neatly packed. Price, \$3.00 net.

MILKING TUBES.



Full Directions with Each Tube. 35 cents to \$1.25 each.

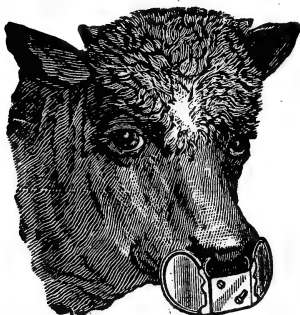
SCALES.

Platform Scales.....\$12.00

RICE'S CALF WEANER AND SUCKING COW MUZZLE.

For preventing Calves and Cows sucking themselves or each other.

No. 1—For Calves till 1 year old, 25c, by mail postpaid 35c
 No. 2—From 1 to 2 years old, 50c, by mail postpaid 55c
 No. 3—For full grown animals and self suckers, 75c, by mail postpaid 85c



MILK BOTTLES.

1 quart, 70 cents per doz.
 1 pint 60 " " "
 1-2 " 50 " " "

MILK CAPS.

Per thousand, 25 cents.

BARREL CHURNS.

No. 0,—	4 gallon, will churn,	2 gallons	\$3.50
No. 1,—	10 " " "	5 "	4.50
No. 2,—	15 " " "	8 "	5.00
No. 3,—	20 " " "	10 "	5.50
No. 4,—	25 " " "	12 "	7.00
No. 5,—	30 " " "	14 "	8.00

Oak Dash Churns, Stone Dash Churns, Dog Powers, Butter Workers, Skimmers, Butter Carriers, Ladles, Richardson's Butter Color, Butter Prints, Floating Glass Thermometers, Dairy Thermometers, Cream Gauges, Babcock Butter Tester.



UNITED STATES SEPARATORS

To enlarge your income from your dairy means that you must get the greatest possible profit from the milk—that you save time and labor and money by installing modern equipment, such as the United States Cream Separator.

This Separator was the first, and is now the only entirely successful Separator that distributes the incoming volume of whole milk evenly at the circumference of the bowl and far beyond the cream zone.

It gets more cream from your milk than any other device on the market.

It stands for the closest skimming by preventing all conflict of currents and no remixing of the cream and skim milk.

Bear in mind that the skimming principles are the same in all U. S. Separators. The improvements made in the Interlocking Bowl greatly intensify the centrifugal action on the milk. This action takes place in smaller space thus making the skimming device more compact.

In the Interlocking U. S. the skimming device is of still greater intensity. The centrifugal stress forces the heavier portions of the milk to the outside of the bowl and the lighter portion, which is the cream, is forced through the center of the winding course through many small channels. The cream travels a longer distance than in the Junior Style.

In making your comparison of Separators, remember that the cream is more thoroughly separated if the length of the flow and the intensity of the centrifugal force is increased. These features account for the extraordinary success of our Interlocking Style Separator. Again, bear in mind that the greater the intensity the smaller the bowl may be, and this means an easier running machine.

LATEST INTERLOCKING STYLE.

No. 18, guaranteed capacity	350 lbs.,	- \$ 65.00
No. 17, " "	450 "	75.00
No. 16, " "	600 "	85.00
No. 15, " "	750 "	95.00
No. 14, " "	1000 "	110.00
No. 12, " "	1350 "	135.00

Power Attachments for Dairy Sizes.

Clutch Pulley 14 in. diam., 3 in. face, for	
Crank Shaft,	\$ 3.50
With additional Loose Pulley, extra, . . .	3.00
Pulleys 12 in. diam. can be supplied if desired	
at same prices.	

Separators fitted with Ratchet and Loose Pulleys 3 in. diam., 1 1-4 in. face, with Belt Shifter, for Worm Gear Shaft, (when ordered with separator), additional price, \$ 6.00

The same in 6 in. diam. Pulleys, additional price, 7.00
3 in. or 6 in. Pulleys with necessary attachments (when not ordered with separator.) Prices on application.

Self Governing Pulleys, each, \$10 00
For Engine or Line Shaft (give size of shaft).



CHAMPION MILK COOLER AERATOR

Automatic, Simple Efficient, Durable.



1	10 quarts	1 to 10 cows	2 milkers	\$5.00
2	18 "	10 to 25 "	3 "	6.00
3	34 "	25 to 50 "	5 "	7.00
4	52 "	50 to 100 "	8 "	10.00

Extra sizes on special orders.

Prices include double cheese cloth strainer and spring pins.

Eureka Butter Printer.

Self-gauging.

Per pound or half pound.

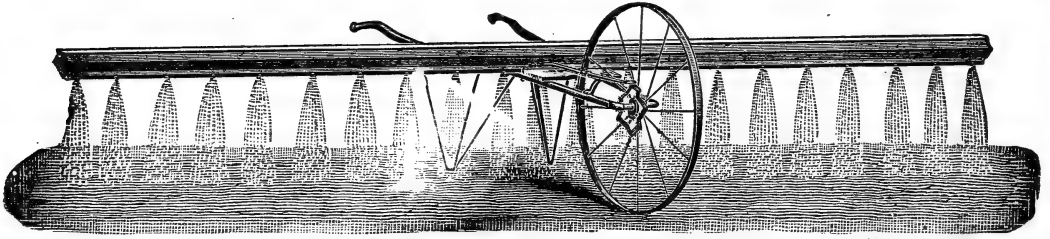
No. 1.....	\$4.50
No. 2.....	4.00



EUREKA BUTTER WORKER.

No. 1, 8 to 12 lbs	\$ 9.00
No. 2, 10 to 20 lbs	10.00
No. 3, 25 to 40 lbs	13.00
No. 4, 40 to 60 lbs	16.00

F. H. EBELING, SEEDS AND HARDWARE
WHEELBARROW SEEDERS.



WITH WOOD OR IRON FRAME.

They can be worked by anyone who can run a wheelbarrow,
Price, 14-foot, \$6.00; 16-foot, \$7.00.

THE LITTLE GIANT SEED SOWER.

This is the cheapest Crank Seeder on the market, and equal to the best for quality of work it does and durability. Don't pay \$5.00 for a seeder when you can get its equal for less money.

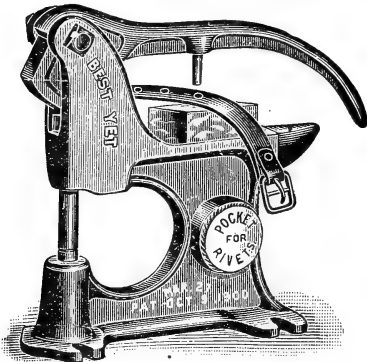
Will sow Wheat, Oats, Rice, Flax, Millet, Turnip Seed, Clover Seed, Grass Seed, including Light grasses; in fact any kind of Seed broadcast. Also Plaster, Fertilizer, Salt, Ashes, etc.

They save one-third seed and two-thirds labor.

CRANK SEEDERS	-	-	-	\$2.00
FIDDLE SEEDERS	-	-	-	\$1.50

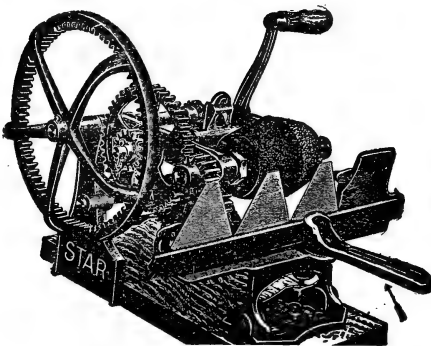


THE "REX" RIVETER.



THE BEST.

The cheapest, most durable and the most Practical Riveting Machine on the market.
Price 50c and 85c.

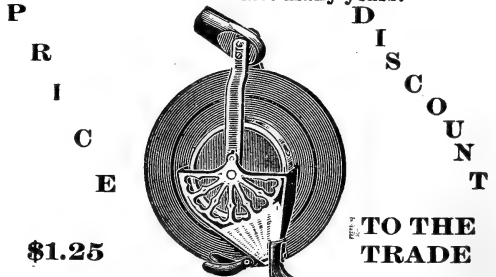


STAR SICKLE GRINDER, \$5.00

Eureka Kitchen Garden Seed Drill and Hot Bed

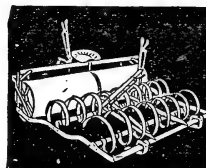
It will sow and cover Beets, Cabbage, Carrots, Celery, Lettuce, Onions, Radishes, Spinach, Turnips, and all such seeds with the greatest regularity. Force Feed. It is only intended for small Gardens and Hot Houses.

Sows up close to the sides in straight rows. Sows the small packet of seed as well as a larger bulk. This Drill is not a toy, but a strong, practical machine that will last many years.



\$1.25

TO THE TRADE



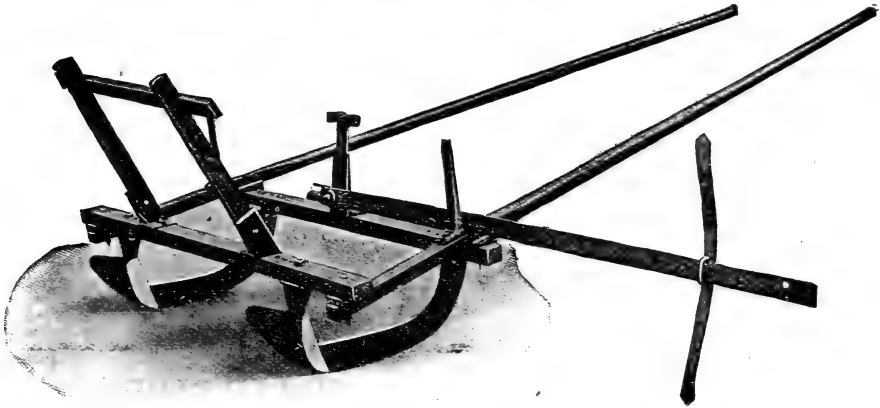
Imboden's Harrow on free trial, without money in advance. Return at our expense if it does not please you. Fixtures to use Harrow and Roller separate and to make a riding cultivator. Guaranteed combined to give 50 per cent. better and nicer seed bed in half the time. Field looks like a garden, no foot prints are left. Can see check marks easier. Saves 1 team, and no heavier draft. A

boy can do the work and ride. Operate teeth any depth, is ready in a second to move. Hundreds of them in use since 1900. Just ask for reports, description, price and terms.

Sold by F. H. EBELING.

Price \$38.00.

THE IMPROVED THREE-ROW CORN MARKER



This cut shows our Steel Wing Marker. The runners are long, which enables it to make true and even mark. It is adjustable to mark any width row and any depth desired.

Two-Row Marker for one horse, \$7.00. Three-Row Marker for two horses, \$8.50.

FARMERS' COMBINATION CLAMP AND DRILL.



\$2.25 with Diamond Point Drills.
\$3.00 with Syracuse Twist Drills.

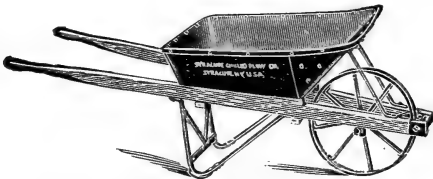
Extra Drills 10c each.
Extra Drills 25c each.

The lowest priced first class article of its kind on the market. Can be used as a wood clamp, also a bench vice, or hand drill.

THE BEMIS PLANTER.

Sets all kinds of plants like cabbage, tobacco, etc. The success of plant setting is assured by its use. The most successful planter on the market. Made near by, and all parts supplied on a few hours' notice. **Price \$65.00.**

Steel Tray Barrow



The framework of this barrow is bolted together and is fitted with a steel tray and patent wood wheel with iron hub, specially adapted for stable work.

Panama, \$3.50.

Deep Steel Tray, No. 1, \$4.50.

We also offer **The Common Wood or Paddy Barrow**, with iron or wood wheels, price, **\$2.25.**

The Prout Hoe

This very practical tool is so well known that no description is necessary. It is a furrower, a coverer and a biller combined. So simple, so handy, practical and good that you wonder why you did not own one before. **Price \$20.00.**

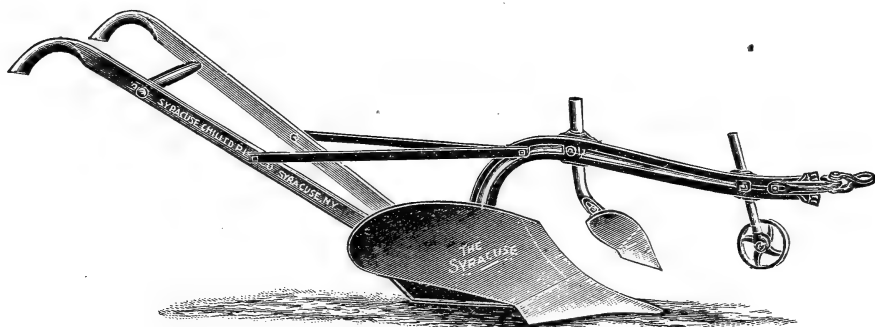
ENSILAGE FORKS.

The ensilage fork we offer is the best and most popular fork ever put on the market and fills a long felt want for a light, strong fork to handle ensilage, fine manure, etc. **Price, \$1.40**

A writer says that his place was overrun with rats until he hung peppermint about the premises, which drove them away at once. The remedy is a simple one and well worth a trial.

**F. H. EBELING, SEEDS AND HARDWARE
SYRACUSE CHILLED PLOWS.**

These Plows are so well known that no word of introduction is necessary. We are pleased to offer their full line to our farmers at the usual prices.



SYRACUSE STEEL BEAM CHILLED PLOW.

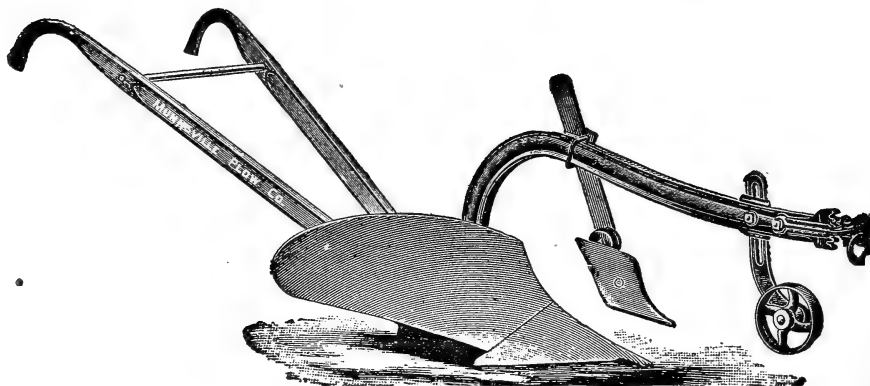
Made in three sizes, No. 401, No. 402 and No. 403.

Chilled Wearing Parts, Light, Strong, Durable.

No. 403—Light Two-Horse, furrow 4 to 6 in. deep, 9 to 12 in. wide,	\$12 50
No. 402—Medium Two-Horse, furrow 5 to 7 in. deep, 11 to 14 in. wide,	14 50
No. 401—Large Two-Horse, furrow 5 to 8 in. deep, 12 to 15 in. wide,	18 00
No. 31— “ “ “ “ “	14 50
No. 32— “ “ “ “ “	14 00
No. 61— “ “ “ “ “	14 00
No. 62— “ “ “ “ “	14 00
No. 31-39—Reversible Sulky, 3-horse hitch,	55 00

MUNNSVILLE PLOWS.

No. 10. STEEL BEAM PLOW—"The Big Seller."



✎ This Plow is long on the run with a high Mouldboard, of a shape that insures easy draft, good cleaning qualities and pleasing appearance. Price \$14.50.

ONEIDA VALLEY CLIPPER No. 2½.

A light one horse cast steel plow, adapted to plowing out corn, hops and nurseries Can be gauged so as to plow to and from the rows.

Price, \$11.50 Plain. No. 2 1-2 Chilled \$11.00.

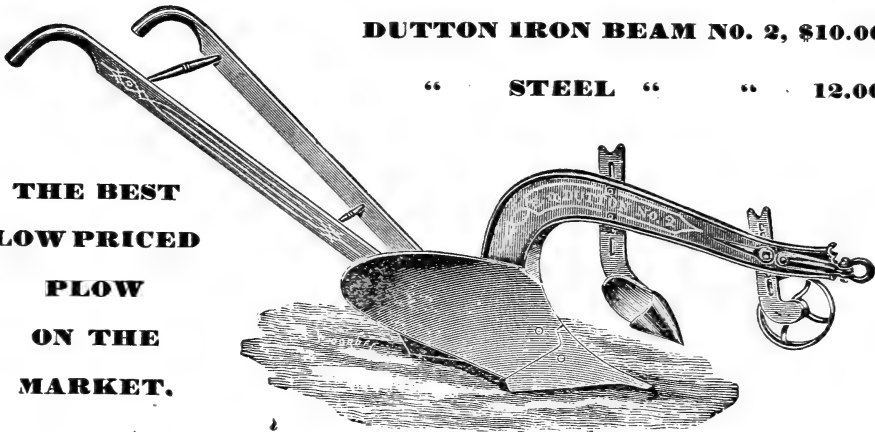
THE MUNNSVILLE PLOW SULKY WITH RIDING ATTACHMENT
With Plow Complete, \$28.00. Riding Attachment Only, \$15.00.

Dutton Steel and Chilled Plows

DUTTON IRON BEAM NO. 2, \$10.00

" STEEL " " 12.00

**THE BEST
LOW PRICED
PLOW
ON THE
MARKET.**



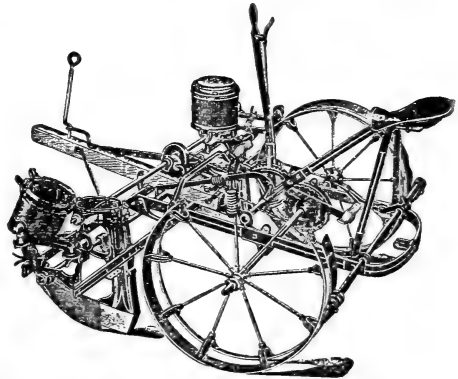
DITCHING PLOWS, PRICE \$10.00

Black Hawk Corn Planter Two Row Planter

This planter is so simple that it is almost an impossibility for it to get "out of fix". It is the easiest machine to adjust you ever saw.

Did you ever notice that kernels of corn, while varying greatly in size, are just about uniform in thickness. This is the principle of the Black Hawk Corn Planter—the drop works on the "edge selection" principle. This drop principle is the most accurate of any yet conceived. The valve mechanism is entirely enclosed within the shank so it cannot be affected by corn stalks or other trash. No matter how fast you drive the team the corn is forced out of the heel in perfect check, and there can be no clogging. Whether for hilling or drilling it's always ready—no change of valves and no change of

plates for the distance you will use. The foot drop is always ready and its position is just where you would put it if you made a corn planter. While the front and back frames are extremely rigid, there is a spring connection between the two which allows the planter to follow unequal the surfaces of ground.



Complete, with Fertilizer Attachment

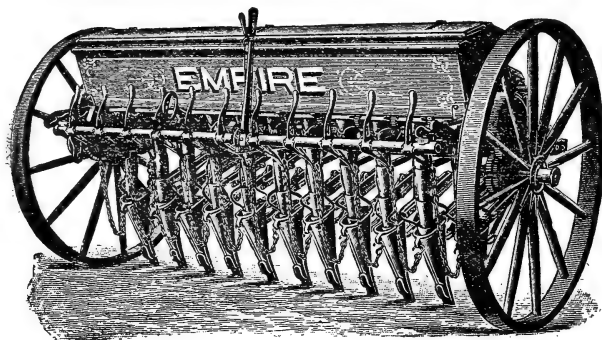
Price \$55.00

Bargains in Tools and Implements

You are offered at an especially low price the following list of high class Tools and Implements. Every one is a genuine bargain, and can be seen at our warehouse.

- 4 Steel, 2-section Rollers.
- 2 second hand A. P. Mowers, 5 feet.
- 1 second hand A. P. Mower, 6 feet.
- 1 Elmir Sully Plow 2-gang.
- 1 Steel Frame Perry Harrow.
- 1 Imboden Roller and Harrow.
- 1 8-fork Peerless Tedder.
- 3 6-fork Peerless Tedders.
- 1 Spading Harrow.
- 3 Wind Weeders.
- 3 Farm Trucks.
- 2 Black Hawk Corn Planters.
- 1 Spring Tooth Harrow.
- 1 Prout Hoe.
- 1 Cyclone Roller and Pulverizer, corrugated.

- 1 Manure Spreader
- 1 Sterling Hay Loader.
- 1 Sterling Side Delivery Rake.
- 1 Bristol Top Buggy.
- 1 Depot Wagon.
- 50 gallon Blanchard Churn, Crank.
- 1 Darnell Furrower and Marker.
- 1 Steel Frame Perry Harrow.
- 1 Imboden Combined Harrow and Roller.
- 3 6 Fork Peerless Tedders.
- 1 8 Fork Tedder.
- 1 Thompson Disk Harrow.
- 1 Moline Adjustable Disk Harrow.
- 1 Empire Drill



Empire Drill

The oldest farmer who reads this reference book of time-savers and labor-savers, cannot remember when the Empire Drill was not looked upon as the most reliable. It has kept pace with modern life and as soon as a real practical improvement has been invented it has first been annexed to the Empire Drill. The Empire sows perfectly all kinds of grass seeds and grains and the fertilizer attachment from any viewpoint cannot be equalled by any other on the market.

Given a safe team, any youngster can drill with the Empire because a mere touch on the levers will raise or lower the disks.

The action is always quick and positive. No grain is spilled, because as soon as a lifting lever is moved the seed cups stop sowing. The action of the springs prevents any jerk or jolt on man or team.

The levers are constructed of wrought and malleable iron so there is small chance of breakage and wear. All frames are of flat steel and bent round corners, strongly braced and trussed.

Measure in weight is the principle upon which the Empire Internal Feed Runs are built. A bushel is a bushel in bulk, but the size of the seed must be considered, and so these cups have two sizes—one for sowing small seeds and another for larger seeds. Every turn of the feed wheels carries out a certain bulk of grain and one bolt tightens the cups.

The Empire Junior Open Delivery Single Disks are adapted to all soils where heavy pressure is demanded; crusts to be broken, stubble to be drilled or clay to be turned over. They even do satisfactory work in mud. The tapering journal and removable sleeve or thimble are chilled hard and smooth as glass.

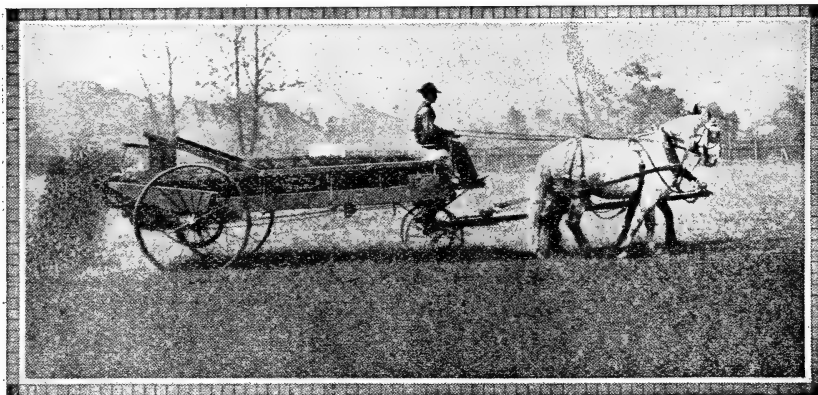
Broadcasting commercial fertilizer and lime in large quantities is often very necessary, and then you need a reliable accurate and durable machine. The Empire is fitted with an accurate force feed of the Mark's type. The cups and scattering spouts are of galvanized iron. The construction gives the driver a high seat and the sides being almost straight prevent bridging of fertilizer or lime over the feed cups.

The remainder of this Catalogue could be devoted to the exclusive features of the Empire Drills, but it may be enough to tell you that for nearly 40 years we have sold these drills and now we positively guarantee every one to do its work successfully.

If you want a drill that will last for two generations and longer send for our free Catalogue.

Price for 9-Tube Drill, \$80.00.

Price for 11-Tube Drill, \$90.00.



KEMP 20TH. CENTURY MANURE SPREADER.

The average farm produces only a limited supply of fertilizer and unless carefully handled it will not meet the demands of the soil. You know that one load of manure properly spread will give better results than two loads spread in the ordinary old-fashioned way.

The Kemp 20th Century is a manure spreader that has all the good features of the old with many new and more practical improvements added. No farmer can find a word of fault with it. It is narrower, longer, lighter, lower, and more easily loaded than the old style. The shape permits it to pass through any ordinary gate or doorway. The truck is made entirely of steel. It will spread uniformly, no matter how heavy the load or whether the soil is level or rolling. A ten-year old boy who can guide a team can operate a Kemp 20th Century.

Life is too short, health is too precious, time is too valuable and manure is too scarce to be wasted by the old method. If you are interested in better tillage and better fertilization and better farming you should investigate the exclusive features of the Kemp 20th Century Manure Spreader and ask for catalogue and price.

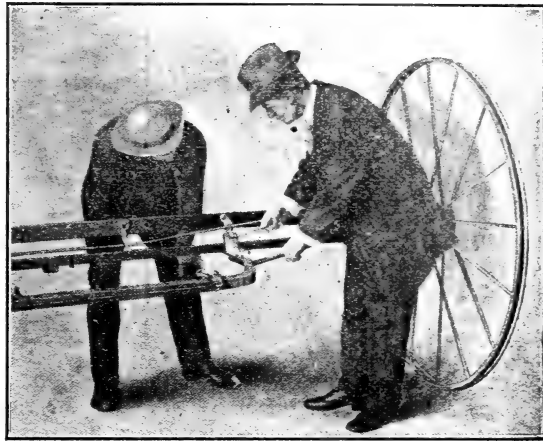
The Reliable Osborne Farm Machinery

Osborne Machines have been used so long by so many up-to-date farmers and have given such satisfactory service that it is unnecessary to call attention to the fact that the number of farmers who are using them is increasing every year.

You probably realize that farmers who use Osborne Tillage Implements in preparing their seed beds and Osborne Machines for harvesting their crops always reap more than the ordinary crop because these tools are made to enable the farmer to prepare his seed beds in the best possible manner and to give him the pleasure of harvesting a bumper crop.

This excellent line of farm machinery that we offer you is made in Auburn, N. Y. The fact that the seat of manufacture is in Central New York makes the line even more favorable to the farmer.

A large and complete line of castings and extras are carried in stock at our warehouse and we are in a position to fill all orders promptly.



A Strong Construction.

**Mowers, Reapers, Hay Loaders, One-Horse Cultivators
Corn Harvesters, Horse Rakes, Lumber Wagons,
Trucks, Tedders, Disk Harrows, Side Delivery Rakes,
Sickle Grinders, Grain Reapers, Spring Tooth Harrows
Peg Harrows, Hay Rakes, Kemp Manure Spreaders**

Our Osborne Binder gives the best service in all conditions of grain. It can be worked close to the ground and will take up tangled grain and bind it successfully. It's light weight, the levers are easy and it has every convenience to assist the operator. The wheels are fitted with roller bearings. The mechanism is so placed that the machine balances perfectly. There is neither neck weight nor side draft. This binder is made to withstand many times the strain it may encounter.

Our Osborne Reaper is an exceptional machine for use in places where a binder can not be operated successfully—for cutting clover for seed and many other purposes. The main frame is cast in one piece making a solid foundation to prevent the shafts from getting out of alignment and the pinion teeth from cutting. The seat folds over the main wheel close to the machine for driving through narrow gates or for storage. It is impossible for the straw to clog.

Our New Osborne Mower overcomes all difficulties common to grass-cutting machines. It is of great strength and light draft, easily handled, neat in appearance, faultless in operation, runs silently and is free from vibration.

Our New Osborne Vertical Lift Mower is of special advantage in mowing in fields where there are stones, stumps or other obstructions

of such a nature that it is necessary to raise the bar.

With our Osborne Rake Hay Loader, one man can do the work of driving and loading. No matter how heavy the hay is piled on the back of the rack, the loader will not pull it off.

Our Osborne Hay Rake was the first all-steel hay rake made and has hosts of imitators. The teeth are fastened to the rake head by interchangeable clamps so that the teeth can be placed close together or wide apart as the operator desires. The check tooth prevents the hay from wrapping and rolling. The dumping rods are reversible and interchangeable giving four wearing surfaces.

Our Osborne Hay Tedder is light draft and strong enough to ted wet windrows. The power is furnished by both wheels. The channel in the tire protects the spoke heads.

Our Osborne Corn Binder will do first class work in short, tall, standing or tangled corn. The main and grain wheels are the same height. Side knives are adjustable.

Our Osborne Disk Harrow has long been the standard type. It does good work in hard ground. There are no castings on the corners to break.

CLARK'S DOUBLE ACTION CUTAWAY

The great problem of getting the best possible results from your crops of grain, corn, fruit and vegetables, is solved by the use of this Double Action Cutaway. It converts woodland into orchards at slight cost. It swells bank accounts and lifts mortgages by lifting the soil—turning, twisting, breaking and aerating and by letting in the air and sunshine.

IT KILLS QUACK.

The Double Action Harrow does between two and three times as much work as any single action harrow—whether solid or cut up it makes and keeps the land true all the time. The draft of the double action is very little, if any more, than the draft of the solid disc harrow and it does at least three times as much work—and better. The reason for this is found in the principle that one set of discs follows centrally behind the other and that there is only about one-half as much tramping of teams in doing follows centrally, cutting and leaving the soil deeper than the first set. It is the work. As soon as the first gang of discs lifts the ground the second gang strikes and follows centrally, cutting and leaving the soil deeper than the first set. It is the only disc harrow that completely levels the ground; all single action disc harrows ridge the ground more or less, no matter how careful the driver. Every harrow is fitted with a jointed pole.

Remember that all **Clark's Grass Tools** are ready for you whenever the frost is out of the ground. This applies especially to our **Double Action Cutaway Harrow** and **Clark's 26, Reversible Cutaway Sulky Disc Plow**.

A-4 Cutaway	\$33.00	A-6 Cutaway	\$40.00
A-5 Cutaway	35.00	Reversible Sulky Disc Plow	35.00

"I have used Clark's Double Action Cutaway for the last six years and cannot do without it. It is the only one that will tear to pieces and thoroughly mix manure into soil. It feeds the land perfectly. It turns, mixes and aerates the soil so thoroughly that the chemical action of the plant food begins at once, providing the growing plant an abundance of food." C. E. WOODWORTH. Oswego, N. Y.

COMBINED CULTIVATOR AND HARROW

This machine is built to be used equally well as a harrow, a disk cultivator or as a listing cultivator. Do not confuse it with the regular A-4 Double Action Harrow—as it is altogether different. This machine has a perfect center draft at all times which is furnished by a special hitch. The machine is handled by two light horses.

When you use this machine as a harrow it cuts 4½ feet wide; as a cultivator it will cultivate crops up to 20 inches high in rows 3½ ft. or more apart. The gangs may be set up to 17 inches apart. As a cultivator it may quickly and easily be adjusted to throw dirt toward the plants or to leave the dirt where it is.

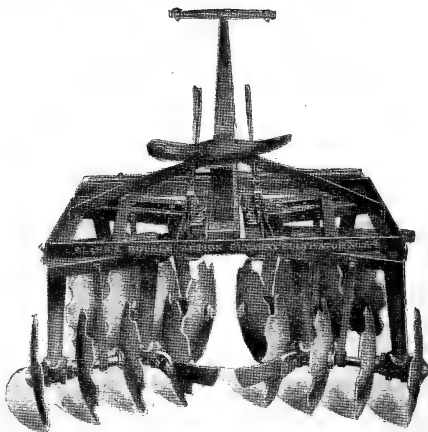
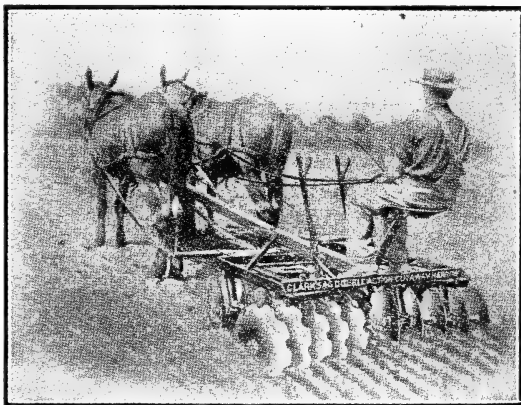
This Double Action Cutaway is regularly fitted with jointed pole and two horse hitch. has sixteen 16-inch disks. The two large disks for listing are extra. This machine weighs, ready to ship, 438 pounds.

Cutaway Harrow Co., Higganum, Conn.

Gentlemen:—I have used the "Cutaway" Harrow for the last 11 years on all my crops. My great specialty is hay for market.

The acre of corn which yielded 127 bushels of shelled corn and which won the \$500 Bowker's Grand Prize at New England Corn Exposition, was worked with a "Cutaway."

Wishing you continued success, I am, Yours very truly, PERLEY E. DAVIS.



Granby, Mass., Nov. 21, 1910.

FARMERS== HERE IS THE MONEY MAKER!

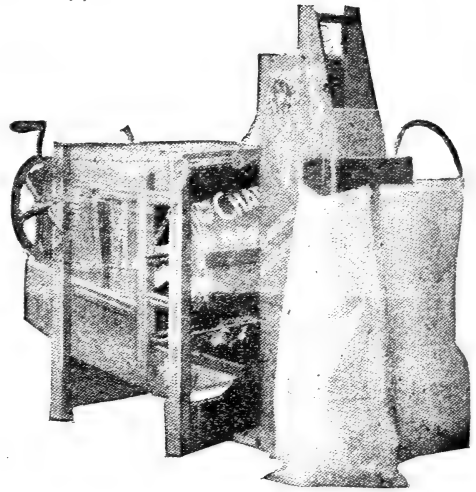
The secret of big crops is planting Pure, Healthy, Fat Seed!

The way to get such seed is to own this magic machine—the Chatham Mill. It's the greatest money-making farm machine on earth.

THE CHATHAM MILL GRAIN GRADER, CLEANER AND SEPARATOR

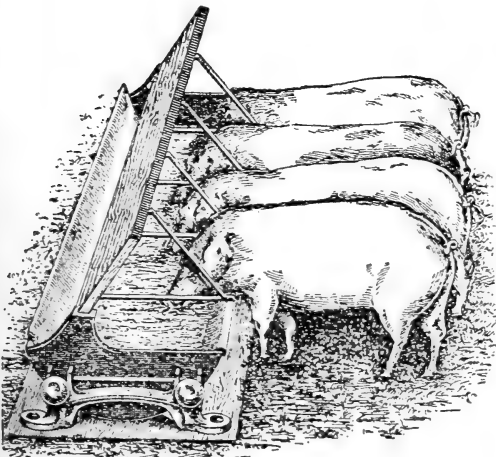
Handles Wheat, Oats, Corn, Flax, Buckwheat, Timothy Seed, Clover Seed—in fact, any grain or grass seed. Cleans, grades and separates all at one operation. Makes you independent—puts an end to planting foul, dirty seeds that grow poor crops and weeds. The "Chatham" handles 60 bushels per HOUR. Runs by hand or gas power.

Over 250,000 "Chathams" are now used on farms—they are recommended by every Agricultural Authority in the country. They make farming easier and a great deal



more profitable. Price \$30.00.

McArthur Hog Trough ECONOMICAL AND EFFICIENT



BECAUSE

IT SAVES FEED. The hogs cannot root the food out on the ground nor get their feet into the trough and spoil it. By this means the food is kept in good condition until eaten, and a supply can be kept constantly within reach. The hogs soon learn that they can get what they want when they want it, and consequently eat more slowly and quietly, with less danger of over-eating and resultant loss and harm.

IT GIVES A SQUARE DEAL TO EVERY HOG. The fact that each hog has a separate place and cannot interfere with the one next to him, assures the smaller and weaker hog of a fair chance to get his share of the meal.

IT IS SANITARY. The food is kept cleaner, and the trough is so made that it can be quickly and easily cleaned. The board division allows one to handily fill it without being disturbed by the hogs, preventing waste of food and soiled clothes.

IT IS NOT EXPENSIVE. It will pay for itself in three months through the saving of food and time and the better hog produced, then it will keep right on making money for you. Price \$1.00 per foot.

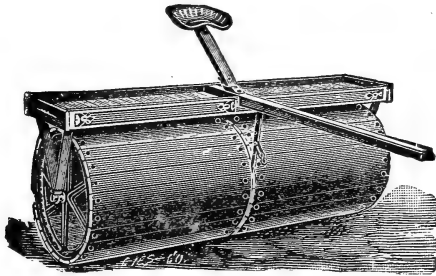
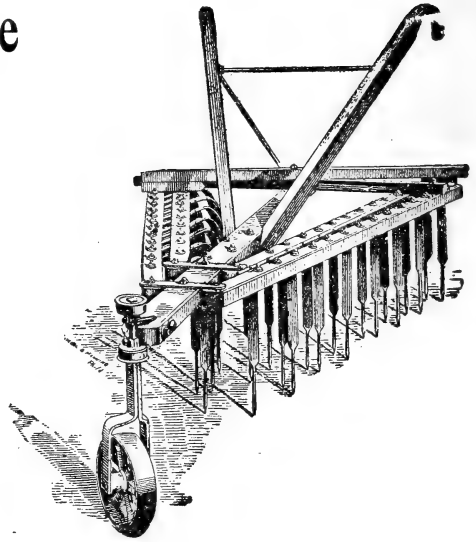
The Keystone Adjustable Flat-Tooth Weeder

(The Keystone Adjustable Flat-Tooth Weeder narrowed to 30 inches.)

This is the most useful and practical Weeder of the many Weeders on the market. Every gardener and farmer should have one.

Weight, 97 pounds
Price, \$14.00

Can be expanded to 7 1-2 feet if desired.



LAND ROLLERS.

Oak Stave Roller, Two Sections \$22.00

Steel Roller, 26 inch, Two Sections, with closed ends, \$28.00

Lawn and Garden Roller \$8.00 to \$12.00

These Rollers are made of the best material and made near home. All parts can be easily supplied.

ACME PULVERIZING HARROW, CLOD CRUSHER AND LEVELER

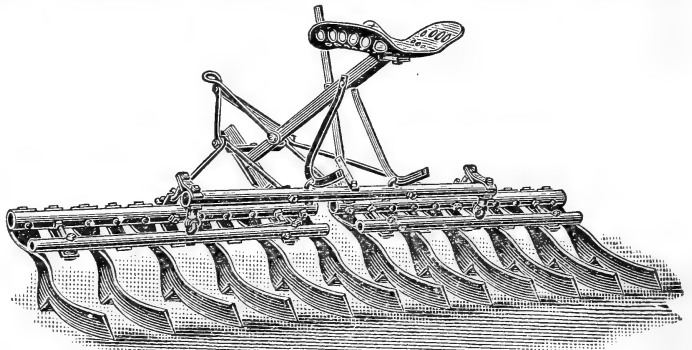
Lightest Riding Harrow sold anywhere. Low in price, light in draft, most easily handled. Made entirely of steel and iron and indestructible.

CUTS, CRUSHES, TURNS, SMOOTHS AND LEVELS, all in ONE OPERATION.

6 ft. 6 in. Two Horse Size.

You need one on your farm.

PRICE, \$16.00.

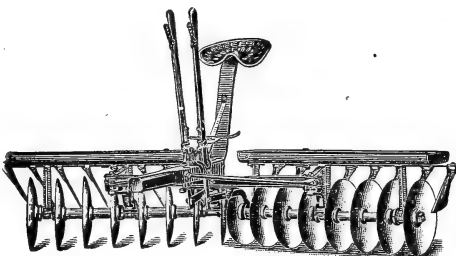


NEW YORK DISK HARROW

The Great Labor Saver.

Every Farmer Should Have One.

Price, = = = \$20.00 to \$25.00





THE NEY CLIMAX OPEN THROAT CARRIER.

With this carrier, it is possible to fill the mow closer to the comb of the roof than with any other carrier on the market. The throat has an exceptionally large opening, and the simple locking mechanism is so arranged that the lifting head or pulley locks directly on the sides or frame of the carrier, not depending on separate dogs or locks to hold the load. It is constructed and operated without the use of springs, and engages projections upon lifting pulley in a line with axis of pulley. This permits the pulley to swing very near the track and enables the carrier to work under conditions where any other carrier would necessarily fail.

CARBORUNDUM SCYTHE STONES

Do away with the grinding of a scythe altogether. They produce a clean, sharp edge and do it faster and easier than it could be done on the best grindstone ever made.

Carborundum Scythe Stones must not be classed with the ordinary scythe stones that you have been accustomed to. The old style stones are merely sandstone and are of very little use. They simply RUB the edge into shape—Carborundum CUTS it—cuts it fast and clean and puts an edge on your scythe that will be a revelation to you. **Price, 25c.**

REVERSIBLE HAY CARRIERS. For either Steel or Wood Track.

Light and Durable. Runs either way on the track without changing.

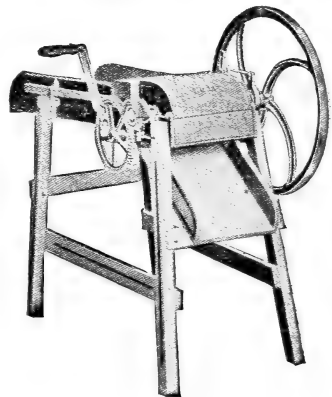
Price, \$4.50.

Ney Hay Car, steel or wood track	\$4 50
Climax Car, open throat	4 50
Diamond Car, wood track	4 50
Double Harpoon Forks	1 00
Double Harpoon Alfalfa Fork	5 00
Steel Track per foot	11
Pulleys in Wood and Iron, each, 25 to 75	75
Hanger Hooks, doz.	50
Brackets, doz.	10
Floor Hooks, each	30
Tedder Teeth, each	25
Horse Rake Teeth	
Rope, best Manila, at lowest prices.	
All Steel Hay Tedder	36 00
Adriance Steel Rake	22 00 to 25 00
New Yorker Horse Rake	20 00 to 24 00

We carry Haying Tools of all kinds.

Also Teeth for all Rakes and Tedders.

HAND POWER FEED CUTTER.



Price, \$12.00

THE STERLING HAY LOADER

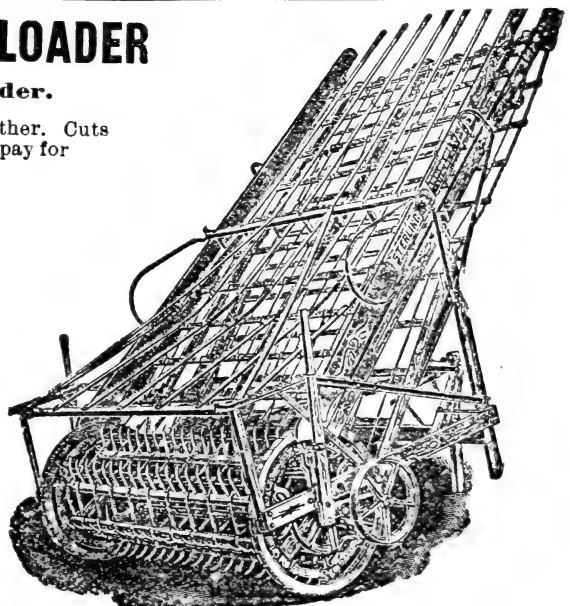
A Labor Saving Wonder.

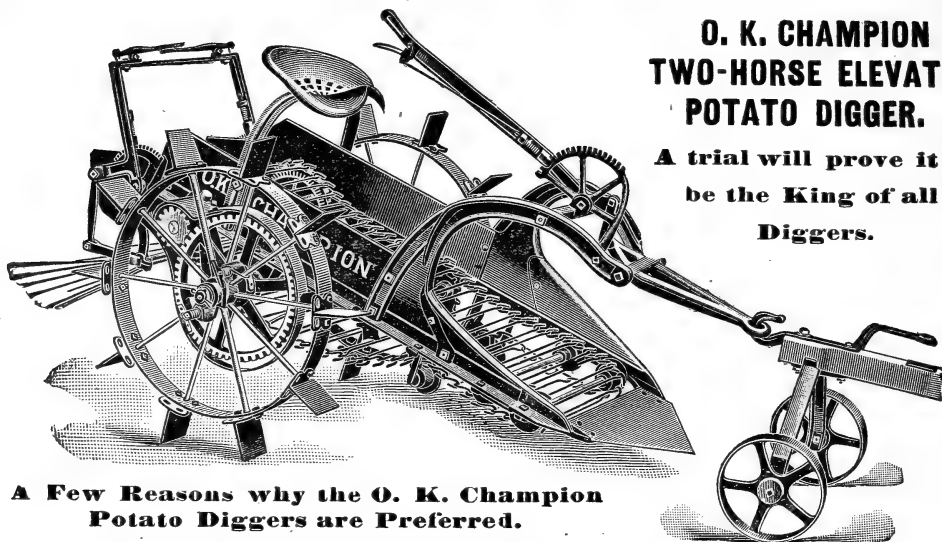
Insures your hay crop in catchy weather. Cuts the cost of labor one-half. Will pay for itself in one season.

The Only Light Two-Horse Loader That Will Load Bunches and Heavy Windrows Without Damage to Loader.

Price, \$60.00.

It is Absolutely Guaranteed.





O. K. CHAMPION TWO-HORSE ELEVATOR POTATO DIGGER.

A trial will prove it to
be the King of all
Diggers.

A Few Reasons why the O. K. Champion Potato Diggers are Preferred.

BECAUSE They are strictly a Two-Horse Elevator Digger, two ordinary horses will do the work with ease.

BECAUSE It has an extra wide opening at the front, accomplished by using special constructed front throat side plates with inward extending lugs, to which the shovel blade is connected. The front throat side plates taper downward toward their front end, and are also flared outward at their upper edges, which edges are rolled backward to give a smooth, round surface; these flare outward at about midway between the throat and return to the vertical plane of the side plates. This will enable the ground to spread when entering the machine, thereby losing itself quickly through the apron. This construction will also allow the weeds or vines to slide up through the machine without catching on the side.

BECAUSE The apron is of a special design, made of special High Carbon Spring Steel, having alternate high and low links, which gives them the power to break the ground more quickly than the straight pattern.

BECAUSE It is absolutely the simplest in construction, having less parts than any other Elevator Digger.

BECAUSE The machine is guaranteed to do what is claimed for it.

LAST BUT NOT LEAST It is sold for a price at which any farmer can afford to own his own machine. I have sold to our farmers in this vicinity about 350 Champion Diggers and can refer you to hundreds of satisfied users of this wonderful Digger.

All broken parts free during the first season.

Price \$65.00

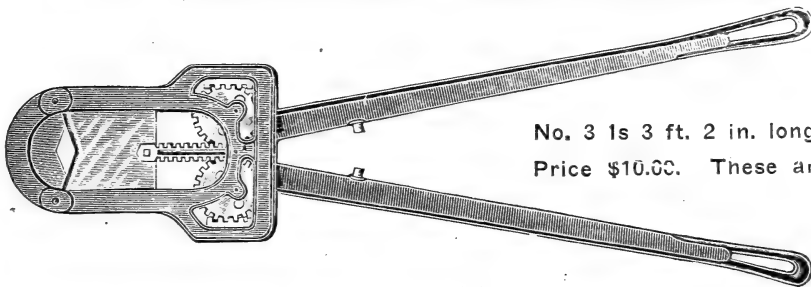
The No. 2 machine is constructed on exactly the same principles as the No. 1, which we have sold for many years, the only difference being that it is somewhat larger. The elevator is two inches wider and ten inches longer, other parts being built in proportion. The main beams of the No. 2 Digger are larger than those on the No. 1 machine and the main wheels are larger in order to accommodate the increased size. There is no other difference as the mechanism is exactly the same.

Price, \$80.

O. K. Champion Digger No. 3

We herewith present the new O. K. Champion No. 3 Digger with Extension Elevator. There has been some call for a larger capacity digger in irrigated and heavy soil sections, therefore we have built our No. 3 Model. A description of the Machine is as follows:

Width 22 inches between sides equipped with our patented wide front throat side plates, allowing the dirt when it enters the machine to **spread to 26 inches**, breaking the ground and making quick separation at that point. The elevator apron is made of 3 8 round extra high carbon spring steel with the links alternately raised and lowered to facilitate the carrying and breaking of the dirt rapidly as possible, reducing the load and thereby the draft. The crucible steel shovel blade is 15 inches long and ground to scour in any kind of soil. The relation of shovel and elevator apron is such that the dirt will slide up from the shovel to the elevator with the least resistance. The main wheels are 35 inches high, made of steel with cast hubs and fitted with removable lugs; the gear wheel fitted over the hub of main wheel is 18 1-2 inches in diameter and drives both the elevator apron as well as the extension conveyor. The extension is the same width and has the same kind of elevator link apron as the main machine and is 2 feet 8 inches long. This assists materially in cleaning any remaining dirt from the tubers and allows them to fall on the ground in a nice row behind the machine. The extension may be adjusted up or down by the extension brace running from the seat post to the cross brace on the same. It is amply strong for any soil or condition of field; its capacity is ample, having over 15 square feet of separating space; its simplicity is one of its main features because it relieves the possibility of wear and breakage and reduces the repair expenses to almost nothing. Its power requirements are where conditions of soil and field are normal, two horses will do the work without difficulty. In extraordinary, heavy soil or field conditions four horses can be used without any danger of pulling it to pieces and the consequent wait for repairs. **Price, \$90.00.**

DR. LEAVITT'S DOUBLE POWER DEHORNING CLIPPERS.

No. 2 is 3 ft.
long, weighs
12 lbs. \$8.00

No. 3 is 3 ft. 2 in. long, weighs 15 lbs.
Price \$10.00. These are made with V

blades . or
slant blades
or bull style.

KOW KURE is a medicine especially designed for the cow and it is the only remedy known that entirely fits her case. It is carefully compounded of twelve drugs which may be divided into four sets; there is one set acting on the womb and other organs of generation; another set acting upon the stomach; another set on the blood, and the fourth on the kidneys and bladder.

WHAT IT DOES—Kow-Kure prevents abortion by aiding nature to give nourishment to the organs of the generation and strength to the muscles of the womb. We know of no other medicine that will do this. It cures barrenness and retained afterbirth in the same way. It improves appetite and aids digestion, thereby increasing the flow of milk. It enriches and vitalizes the blood, curing bunches and inflammation. It cures diseases of the kidneys and bladder. Kow-Kure is in every sense a medicine and in no sense a food. Fed to milch cows it improves their condition and increases milk and cream ten per cent. Cost about one cent per day per cow. Price 50c and \$1.00.

FARMER'S**FAVORITE****COOKERS**

	Size, boiler	Size, Fire Box	
No. 2	30 gal. 22x24x13	1-2 24 Inches	\$11 00
No. 3	40 " 22x30x14	. . . . . 30 "	12 00
No. 4	50 " 22x36x15	. . . . . 36 "	13 00
No. 5	75 " 22x48x17	. . . . . 48 "	15 00

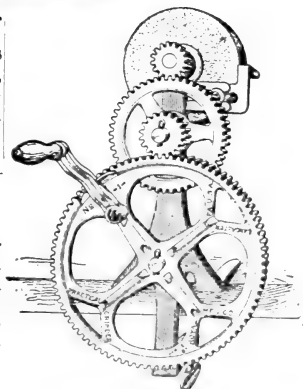
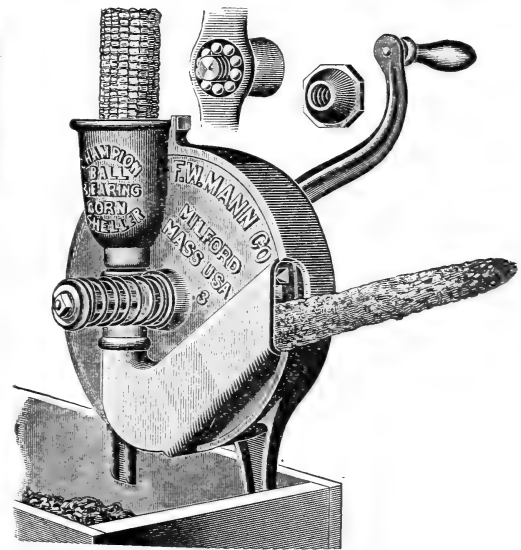
The Farmers' Favorite is used for a great variety of purposes, such as cooking grain and vegetables for stock and poultry. Heating water for scalding hogs and poultry. Boiling spraying mixture. Heating water on wash day. Heating water for washing dairy utensils. Rendering lard and tallow. Boiling sorghum.

Heating drinking water for stock. Syruping down. Boiling elder. Preserving and evaporating fruit. Sugaring off. Boiling sap. In addition to the above, by using a top plate in place of the boiler it converts the cooker into a first-class stove for warming a milk room, hog house, poultry house, cellar or shop. Can you think of any other farm implement that can be used for so great a variety of purposes? The farm equipment is incomplete without one of these cookers.

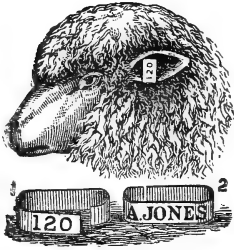
Add \$3.50 for grate, for coal or coke

THE IRON KING CORN SHELLER

Has no equal. It is the best and cheapest Sheller on the market. **Price, \$1.00.**

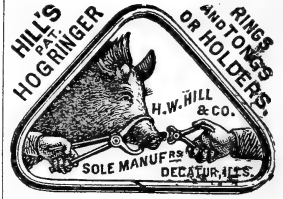
**EMORY GRINDSTONE WHEELS.**

After numerous tests, comparing Alundum grain with other abrasive grains, including the Diamond, Alundum is found to exceed 91-2 inches in scale of hardness, where the diamond is 10. All spindles are cold-rolled steel. Best cast iron used for frames and gear wheels—positively no scrap iron. It will last a lifetime. No belts to break and no chains connecting gear wheels to buckle. No water required on grinding wheel and positively will not draw temper of the finest steel. **Price \$1.75, \$2.50, \$5.00.**

**DANA'S STOCK LABELS****For Cattle, Sheep, Hogs, Etc.**

Cattle Labels, . . . 75c dozen, \$4.00 per 100	
Sheep and Hog Labels, 50c doz., \$2.50 per 100	
Punches for Cattle,	\$1.50 each
" Calves,	1.25 each
" Sheep and Hogs,	1.00 each
Bull Nose Punch,	1.25 each

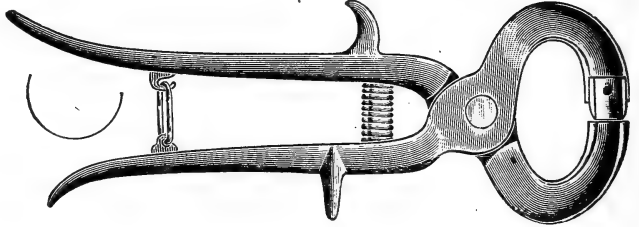
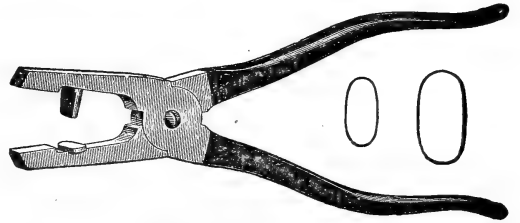
The above mailed you upon receipt of price named.

**HAND AND POWER ROOT CUTTER.**

Has a capacity of 80 to 100 bushels per hour. One bushel per minute has been cut as a test, many times.

It saves the price of a cow, as they cannot choke when fed on roots cut by this machine.

Price, \$9.00 to \$14.00.

**Dana's Bull Nose Punch.****Dana's Cattle and Sheep Punch.****Hog Rings**

10 Cents

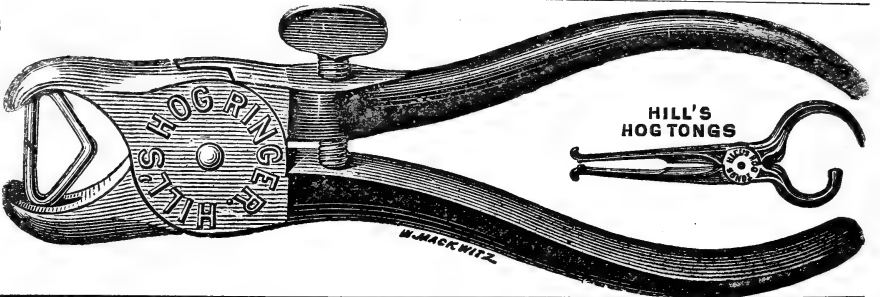
Per Box.

Hog**Ringer**

25 Cents

Hog Tonges

50 Cents

**BLATCHFORD'S CALF MEAL.**

The perfect Milk Substitute for raising calves. One hundred pounds of it makes 100 gallons of Rich Nutritious Gruel. It is now a well recognized fact that one of the most successful aids to profitable farming is using a good Milk Substitute for raising calves. It is absolutely the only Milk Substitute that contains all the elements necessary for bodily growth in approximately the proper proportion. It pushes pigs, colts, etc., forward better and quicker than any other food.

Average analysis of Blatchford's Calf Meal from a number of analyses taken at various times:

PROTEIN, 25 per cent.

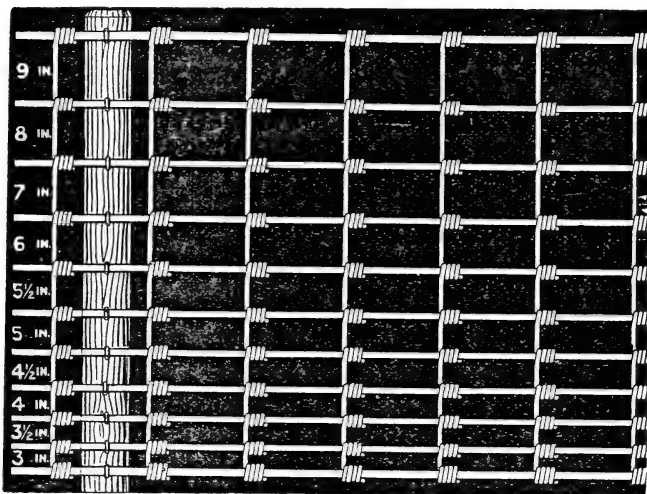
FAT, 5 per cent.

Prices: 100 pound bag, \$3.50.

50 pound bag, \$2.00.

25 pound bag, \$1.00.

"AMERICAN" SHEEP, HOG AND CATTLE FENCING



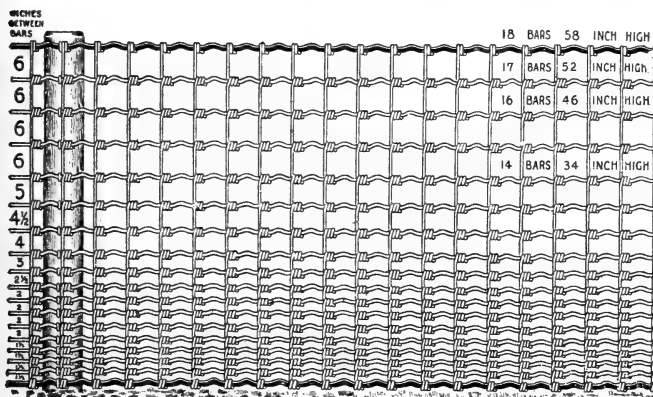
This is a fence that fences and stays fenced. It stands for freedom from worry. With this fence you can rest easy and need fear no danger of your stock breaking out.

In this fencing we have every form offences for sheep, hogs and cattle. It's made in two weights, medium and heavy.

Here's an especially interesting feature about this fencing—it's not only one of the best made but the cost is very small. The price was never so low as now. We have three cars in stock of the leading sizes. Ask or write for booklet.

The Lott Fence Stretcher is the only tool necessary for putting up

the American Field and Hog Fencing. Every farmer should own this Stretcher. It costs only \$5.



ANOTHER WONDERFUL FENCE.

There's no better fencing made for hogs, cattle, poultry or rabbits. It makes an ideal garden fencing. It's strong, thoroughly practical and more durable than netting. The light specifications are strong enough to turn stock.

This fencing comes in 8 to 15 bars, either in 6 or 12 inch stays, 20 to 50 inches high, 25c. to 45c. per rod.

A COMBINATION TOOL 7--SEVEN TOOLS IN ONE--7

Price \$1.00



NEEDED BY 6,000,000 FARMERS.

It takes the Place of Button Pliers.



Here's the handiest tool a farmer ever can own. Stop and think. It drives, pulls, makes and saves staples. It's a wrench and pincer, nail puller and hammer. It cuts, splices, straightens and tightens wire. It removes trellises.

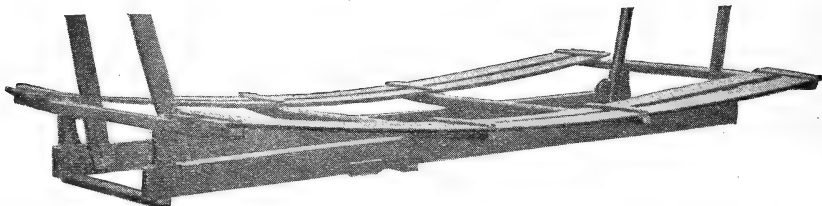
Saves time and wages; saves cutting hand; saves your temper, and it saves chasing cattle. You need one. Write now. It's only \$1.

A Big Success

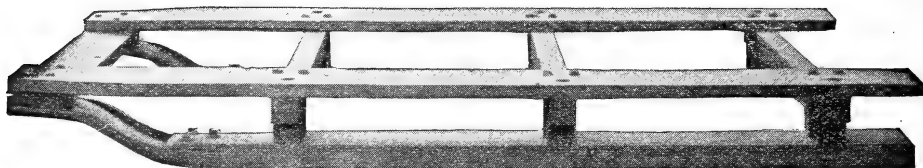
MERIDIAN HAY RACK.

We combine in our Hay Racks, simplicity, lightness, strength and durability, too well known to require any recommendation. Manufactured of selected lumber and well bolted.

Price, 16 foot racks, \$13.00 14-foot racks, \$12.00.



OUR IMPROVED SLIP.

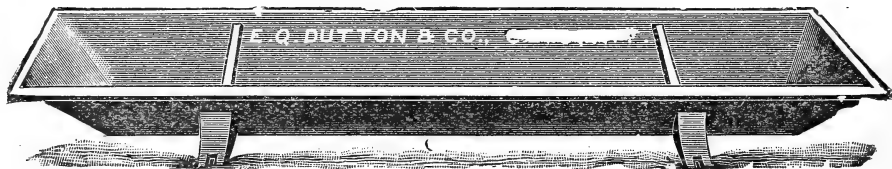


The above cut represents our Improved Slip, which any farmer can make by using our castings, which are shown in the front part of the cut. These castings are all finished and ready for the 3x6 inch maple runners. Since it is impossible to get Slip Runners sawed with the right sweep, any farmer will appreciate the benefit of our castings at a glance.

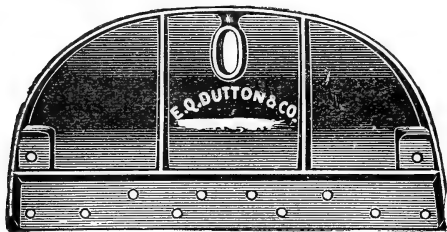
All complete like above cut, \$8.50.

Set of Shoes for above, \$2.75.

IRON HOG TROUGHS.



No more trouble building Hog Troughs. One of these will last a lifetime. Made in four sizes 3, 4, 5, and 6 feet, 8 inches deep, 12 inches wide. Price 50 cents per foot.



IRON STONE BOAT HEAD.

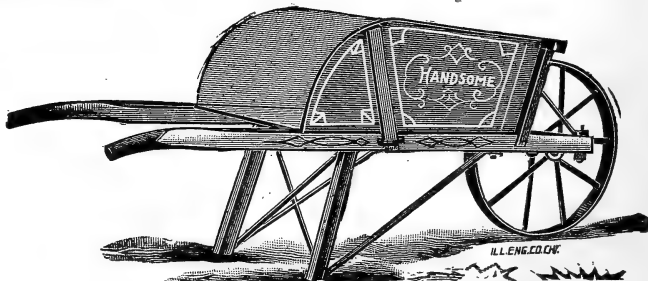
A Simple, Complete and Inexpensive device whereby a Stone Boat can be made in a few minutes by using straight plank. One head will last for years.

Price \$3.00 Each

GARDEN BARROWS,
\$3.00 to \$5.00.

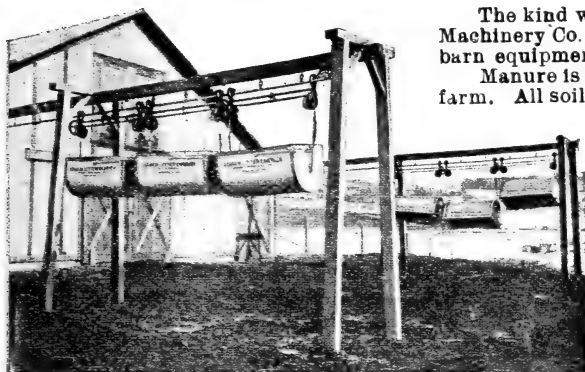
DIRT BARROWS,
\$2.00. \$2.25.

STABLE BARROWS,
STEEL TRAY,
\$3.50 and up.



"WE SELL HARDWARE, GLASS, PUTTY, NAILS, CUTLERY, ETC."

LOUDEN LITTER, FEED CARRIERS AND STABLE EQUIPMENT



The kind we offer you are made by the Louden Machinery Co., that has had 40 years experience in barn equipment.

Manure is the most valuable bi-product of your farm. All soil experts agree that when it is used fresh and containing its fine share of liquid it's worth at least 50 per cent more than the old manure. You are not saving this 50 per cent unless there is a Litter Carrier in your barn. The old-fashioned wheelbarrow is too expensive for you. One carrier will place the litter in your wagon or any distance from your barn. The Louden was the first patent issued on litter carriers. These carriers are still at the head of their class.

PRICE LIST.

Louden Litter Carrier and Parts.

Litter Carrier,	\$35 00	Stop Block, each,	20
Steel Track, per foot,	18	Rafter Brackets, per dozen,	60
Hangers, per dozen,	1 50	Ridge Pole Brackets, per doz.,	85
Curves, each,	2 00	Screw Eyes, per dozen,	85
Two-way Switch,	5 00	Splices, per dozen,	50

THE NEW MODERN WATERING BASIN

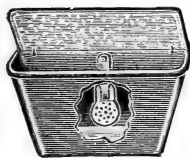


Fig. 410

This watering basin will furnish a cow with fresh water at any time. This means an increase of from 5 to 10 per cent in the flow of milk. The basins are cast iron thoroughly coated. Round corners. Smooth bottom. Inlet on the back side. Tapped for 3-4 inch pipe. Covered with strainer. Hinged so that particles of chaff can easily be removed. Hardwood board included with each basin.

Galvanized Iron Covers—Practical and sanitary. Cattle soon learn to raise the covers themselves. The drop is automatic.

THE GLOR NEW MODERN CARRIER SYSTEM

LITTER, ENSILAGE, PLATFORM AND MERCHANDISE CARRIERS

Sanitary Steel Stalls, Stanchions, Water Basins with Covers. Feed Mangers, Stable Ventilators, Adjustable Steel Gates, Hog Troughs, Galvanized Tanks, Box Stalls, Piggerys.

Endless Chain Litter Carrier—Specially designed for stables having high ceiling. Easily operated by pulling downward the endless chain. Stops at any point. Various sizes. Capacity 700 to 1000 lbs.

Double Trolley Litter Carrier—Same as former but operated by a crank gear instead of endless chain.

Double Standard Steel Stalls—Nothing easier to keep clean than one of these stalls set in cement. Equipped with enameled lined water basin.

Stanchions have metal bearings, top and bottom. We also have many other steel stalls, single and double standard, with improved stanchion locks. These stalls give cattle perfect freedom of head and the cattle will be much better than in stationary stanchions. You are also offered your selection from a large line of wooden stalls.

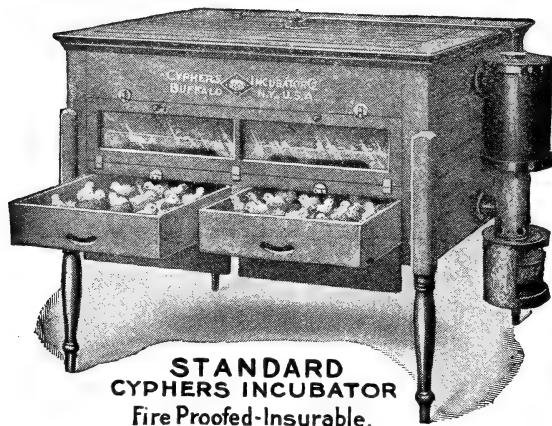
Litter Carrier, No. 115	\$35.00	Latches, each . . . . .	.75
Trolleys, single, each	2.50	Hangers, per dozen with nails	1.15
Track, including 10 inch hangers with nails every 28 inches . . . . .	.18	5-16 inch 7 Wire Galv. Strand, per foot . . . . .	.02
Track, including 10 inch hangers with nails every 12 inches (capacity 2000 to 3000 lbs) per ft. . . . .	.25	2 Way Switch complete without adjuster	2.00
Switch Adjusters, complete	5.00	Swing Cattle Stanchion, swivel	1.50
Curves, including 10 inch hangers every 14 inches, per foot . . . . .	.24	Swing Cattle Stanchion, chain hangings	1.50
		Adjustable Ball Stanchion chain or swivel	2.00
		Corn Manger, No. 3 17x17x10	1.50
		Water Basin, No. 2 with backboard and bolts 3-4 inch	1.50

F. H. EBELING, SEEDS AND HARDWARE

WE ARE AUTHORIZED AGENTS FOR

GENUINE STANDARD CYPHERS INCUBATORS PATENTED

(Look for Trade Mark—Demand the Label.)



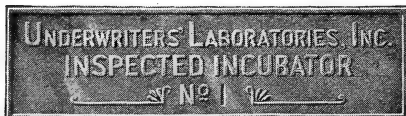
Practical poultry raisers who mean business and desire the greatest possible success should look for and DEMAND the qualities that have made Cyphers Incubators WORLD FAMOUS.

**Fire-Proofed
Insurable
Self-Ventilating
Self-Regulating
Non-Moisture
Efficient, Durable and
Positively Guaranteed.**

FOR 1913 We offer our customers the Cyphers Company's complete line of incubators and brooders—the best on the market. For years the Cyphers Incubator has been consistently improved, always maintaining its leadership, until to-day it represents all that is most efficient, convenient and reliable in incubator instruction.

To own a Cyphers is to have an incubator that stands first, not only because it has affixed to it the fire insurance label granted by the National Board of Fire Underwriters and bears a world-wide reputation, but because of the well established fact that it is the best hatcher of large, vigorous, livable chicks. It is positively guaranteed to outlast any other make of incubator under widely varying conditions, season after season, and to last ten years without repairs.

Form of Brass Label to be found (in serial numbers) on every Standard Cyphers Incubator. All sizes.



DEMAND THIS LABEL.

YOUR SAFETY.

The Principles of Construction that have made Cyphers Incubators "the world's standard hatchers" for the last twelve to sixteen years remain unchanged in the 1913 pattern. Their patented features, their entire freedom from the bothers, disappointments and losses common to the "cheap" or "bargain" incubator, make these high-class machines the best for you to own first, last and all the time. They are used with unequalled success in all parts of the civilized world, under every practical condition by men and women in all walks of life. They are money savers and money makers for poultry raisers who "mean business"—for men and women who want a real incubator with which to get out of poultry keeping all the profit and all the pleasure there is in it.

Cyphers Incubators have now been on the market sixteen years and to day are used by more Government Experiment Stations, on more large, practical poultry plants, on more successful duck and egg farms and by a large number of foremost poultry breeders than all other makes combined. For proof of these statements send to us for a copy of Cyphers Incubator Company's latest complete catalogue—1913 edition—now ready for mailing, free on request. Book contains 244 pages, 7 1-2x10 inches.

Every Standard Cyphers Incubator is Guaranteed by the manufacturers to do first-class work in the hands of every purchaser who will give it a fair trial, and we hereby place our guarantee back of theirs. In buying a Cyphers you take no chances. Persons who earnestly desire to succeed in the poultry business should have the right tools with which to work. Write us to day for free illustrated catalogue telling all about these superior hatching machines.

SIZES AND PRICES OF CYPHERS INCUBATORS.

Free on Board Cars, Syracuse, N. Y.

No. 0 Holds 70 Hen Eggs,	\$15.00	No. 2 Holds 244 Hen Eggs,	\$32.00
No. 1 Holds 144 Hen Eggs,	22.00	No. 3 Holds 390 Hen Eggs,	38.00

NOTICE.—The above prices are factory prices. In buying of us you save on freight and also save valuable time. Goods are carried in stock by us the year around. Remember that time is money.

STANDARD CYPHERS COMBINATION BROODERS AND COLONY ROOSTING COOPS.

FOR 1913 Cyphers Unequaled Apartment Brooders and combination roosting coops have the same important advantages over all others makes that are possessed by Cyphers Company's 1913 incubators, in that they are fire-proofed and insurable, having the first fire insurance inspection label ever granted on a brooder.

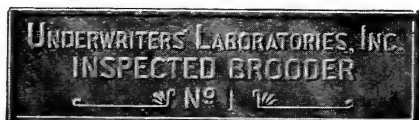
Cyphers 1913 Brooders, every size and style, are self-regulating, self-ventilating and vermin proof. The outdoor styles are usable also as colony coops for the growing chicks. They are easily and quickly converted into colony roosting coops by simply taking out the hover, which is made removable for that purpose.

FIRE-PROOFED, INSURABLE, SELF-REGULATING.



STYLE B OUTDOOR BROODER.

(Three apartments. Safest and most popular "Foster Mother" ever designed.)



DEMAND THIS LABEL YOUR SAFETY

Form of Brass Label to be found (in serial number) on every Cyphers Brooder. All sizes.

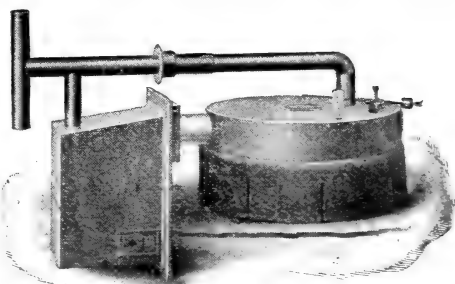
It has often been said of Standard Cyphers Incubators that

THEY MOTHER THE CHICKS BETTER THAN A HEN.

An Important Reason for this is found in the great practical advantage possessed by the entire line of Cyphers Brooders for 1913 in their self-regulating feature. For years the self-regulator was attached only to the highest priced Cyphers Brooder (Style C), but it was so well received that now it is attached to all Cyphers Company brooders. It automatically regulates the heat in the brooder underneath the hover at all times, whereas in brooders without a regulator the heat has to be governed by a continuous watching of the lamp and turning the wick up or down whenever more or less heat is required.

In addition to this unequalled line of brooders, we offer separately the Cyphers Company's world's challenge Adaptable Hover. This machinery-made, all metal, guaranteed fire proof heating and brooding device is suitable to be used anywhere that heat is required for brooding chicks or ducklings. It can be used in a roosting coop, colony house, shed, hen house, barn or other building with or without any additional enclosure for the chicks, or in a large goods case or organ or piano box.

Is pronounced by thousands of users to be the best device thus far invented for heating home-made brooders. Recommended especially for use in long brooding houses, one hover for each pen. Adaptable hover is complete in itself, bears insurance label as a separate device, and is safe to use anywhere. Weight, boxed for shipment, only 40 pounds.



ALL METAL ADAPTABLE HOVER.

(Self-Regulating and Bears Insurance Label as Separate Device.)

Sizes and Prices of Cyphers Adaptable Hover and Brooders.

Free on Board Cars, Syracuse, N. Y.

Adaptable Hover, capacity 75 chicks,	8 8.50
Style A, Two Apartment Outdoor brooder, capacity 75 chicks,	12.50
Style B, Three Apartment Outdoor Brooder, capacity 100 chicks,	16.50
Style C, Three Apartment Outdoor Brooder, capacity 100 chicks,	18.50
Style D, Two Apartment Indoor Brooder, capacity 75 chicks,	11.50

CYCLE HATCHERS, BROODER--HATCHERS AND



PHILO SYSTEM GALVANIZED IRON FIRELESS BROODERS



Prices of Brooder Hatchers.

1 Brooder Hatcher, with thermometer,	\$ 8 00
2 Brooder Hatchers, " "	15 75
4 Brooder Hatchers, " "	29 25

Prices of Cycle Hatchers.

1 Cycle Hatcher, with thermometer,	\$ 6 50
2 Cycle Hatchers, " "	12 25
4 Cycle Hatchers, " "	23 25

Prices of Galvanized Iron Philo Lampless Brooders.

1 Galvanized Iron Brooder, large size,	\$ 2 75
2 " " " " " "	5 15
4 " " " " " "	10 00
1 " " " " " " medium size,	2 25
2 " " " " " " " "	4 15
4 " " " " " " " "	8 00
1 " " " " " " small size,	1 75
2 " " " " " " " "	3 15
4 " " " " " " " "	6 00
1 Set three Galvanized Iron Brooders, one of each size,	5 50



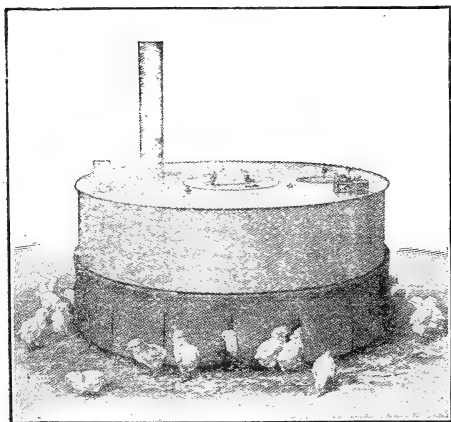
BOSTON DRY FOOD HOPPER

The Food-Saving, Rat-Proof Hopper That
Made Dry-Feeding of Poultry a Success

The use of these hoppers will positively save their original cost every week in the case of adult fowls and every month or less in the case of chicks. Besides this they will help greatly to keep your fowls and chicks in a healthy condition by insuring them clean food entirely free from filth of any kind. Every poultryman will appreciate this feature.

Prices: Large Dry Feed, holds 1-2 bu., . . . each \$1.00
Beef Scrap, Grit, etc., holds 1 peck,90

Hopper is locked for the night by a hook in lower end, making it absolutely rat-proof.



CYPHERS PORTABLE HOVER

Self Regulating : : For Indoor Use

The self-regulating and self-ventilating Portable Hover, illustrated herewith, was invented by Cyphers Incubator Company in 1910 and has been well tested by us during two seasons of practical use on the Cyphers Company Poultry Farm. It is the only Self-Ventilating portable brooding hover thus far invented and we guaranteed it to be the best device on the market.

As its name indicates, the Cyphers Portable Hover can be picked up at any time—hover, lamp-box, lamp, regulating device, all complete—and moved to a new spot or any place the operator may desire and the device will continue in operation right along. The lamp need not be removed at this time nor the wicks so much as turned down. Is very convenient for cleaning and for moving the chicks from one location to another.

This Hover has a rated capacity of seventy-five newly hatched chicks, or of fifty chicks that are

Shows the Cyphers Company Portable Hover in Use on Floor of Poultry House. Chicks at all times are on a level with surrounding floor.

ten days to six weeks old. It will hover comfortably one hundred newly hatched chicks. (See main catalog for full description). Price of Cyphers Company Self Regulating and Self-Ventilating, All-Metal Portable Hover, complete \$8.50



THE STANDARD COOP

PAT. APPLIED FOR

The Door of the Standard Coop may be slid around the body, uncovering all openings, or

The Standard A Well Ventilated Galvanized Chicken Coop

IS RAIN PROOF, RAT PROOF, VERMIN PROOF an absolutely safe and sanitary home.

Of first importance to the raising of little chickens is a **properly ventilated coop**. Around the bottom we have turned out small openings

similar to the ventilations on automobile hoods. This permits the air to pass freely through the openings under the eaves of the corrugated top. One advantage of a round coop is, that **there are no corners for the accumulation of dirt or the smothering of the little chickens**. NOTE THERE ARE NO HOLES IN THE HEAVILY CORRUGATED TOP OF THE STANDARD COOP for water to enter, no seams in which rust may collect, no joints to loosen and is easily removed, because of the simplicity of the patent fastenings.

Read what the A. J. Hardware Co., Atchison, Kansas says:

We have been handling this coop for two seasons. Will say, it is without doubt the best constructed coop we have ever had an opportunity to examine, very conveniently packed, easily put together, and the neatest coop on the market. Hot winds and continued strong sun beating down on a galvanized coop of nearly any other make nearly cooks them, while the perfect ventilation of your coop makes it possible for this coop to stand in the

On dewy mornings the top is easily removed or replaced at any point and the small chickens are fed on the floor of the Coop, which is always high and dry.

boiling sun all day and in no way inconvenience the chickens. The top and bottom draft feature evidently covers a necessity other manufacturers have failed to grasp in the make-up of their coops.



it may be opened just far enough to uncover the small opening—keeping the Mother Hen in and allowing the small chickens their liberty.

Price \$2.00



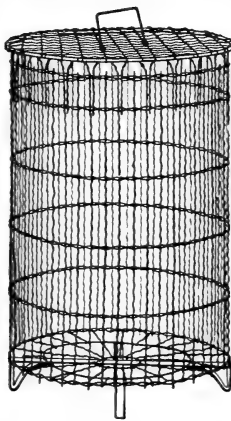
You will notice the Standard Coop is collapsible. The above cut also shows heavily corrugated bottom and Storm Proof Ventilators.

To Burn Your Rubbish

You know the troubles of the old-fashioned dry goods box and open fire method of consuming rubbish. How the wind scatters the papers and cinders over your lawn and into your windows; how your neighbors scowl at the smudge. Then you will appreciate a safe and sane way of burning your rubbish without dirt or danger. You are offered

THE CYCLONE CONSUMER

This is a neat and sanitary wire basket that is made especially to receive waste paper, old rags and rubbish in general. It can be placed in any convenient spot indoors or out, and if the paper man does not carry away your waste a match will empty the basket in just a few minutes. There is no dirt, no danger. It is made in four sizes. No. 1 is intended for printing offices, stores and wherever large quantities of waste accumulate.



No.

1—20 in. diam., 30 in. high, \$3.50
2—17 in. diam., 17 in. high, \$2.75

No.

3—14 in. diam., 21 in. high, \$2.50
4—12 in. diam., 18 in. high, \$2.25

MASCOT HAND CARTS

Handy No. 1

Box, 20 x 40 x 8 inches—three wheels. Capacity, 250 lbs. Shipping Weight, 75 lbs.

With 26-in. side wheels, 3-16 in. spokes. For light delivery it can't be beat. A handy all around cart, useful for a hundred purposes and will pay for itself in a short time. Every farmer should have one. Price, \$10.00.



There is Only One "BEST"

THAT IS

Satisfaction
or your
Money Back

Pratts

39 Years on
the Market

Guaranteed Animal and Poultry Regulators and Veterinary Remedies



Pratts Poultry Regulator

The best and most famous poultry tonic in the world. Keeps fowls of all kinds healthy, increases egg-production, aids moulting. Makes little chicks grow rapidly. In packages, sacks and pails. 25c. upwards.



Pratts Roup Cure

A guaranteed cure for roup, colds, cankers, catarrh, etc., in fowls. Very economical to use. Many prominent poultrymen use it the year around as a preventive. 25c. and 50c. pkgs.



Pratts Powdered Lice-Killer

A powerful insecticide and disinfectant in powdered form; put up in sprinkler top boxes. The increased egg-production due to the ridding your fowls of vermin will surprise you. It pays well to use it. 25c. and 50c.

PRATT'S Baby Chick Food



This is one of the greatest Money Savers and greatest Chick Savers ever placed on the market. Every man, woman or child who raises little chicks, turkeys, ducks and geese should try at least one package of Pratt's Baby Chick Food. It is a scientific food ration to be fed for the first three weeks. If you want **real success** with your hatches, if you want to save all the baby chicks, if you want them to grow fast—get Pratt's Baby Chick Food on our recommendation for your first trial, after that you will never be without it. Put up in 1 lb., 3 lb., 6 1-2 lb., packages, also 14 lb., 25 lb., 50 lb., and 100 lb., bags.

Pratts Animal Regulator

America's pioneer and best animal tonic and regulator; enables your horse to do more work, saves feed, increases your cows' milk, puts your hogs, sheep and steers in fattening condition, makes and keeps all stock healthy. 25 lb. pail, \$3.50. In packages and sacks from 2c upward. It pays to use large sizes.



Remember "Pratts Must Make Good or Your Money Back" Isn't that Square?

F. H. EBELING, SOLE AGENT AND DISTRIBUTOR FOR SYRACUSE

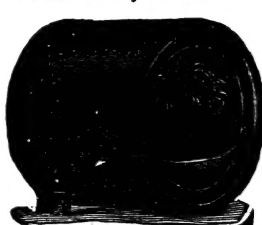
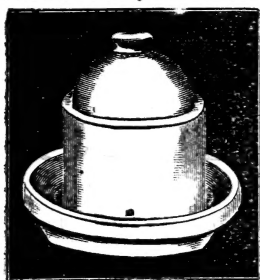
For Prices of Goods on this page, see following two pages.

E. H. M. Poultry Fountains.

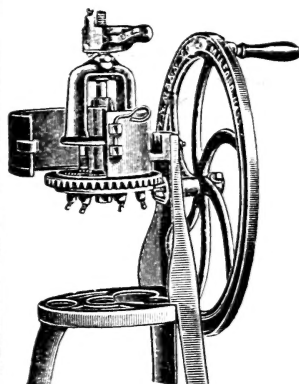
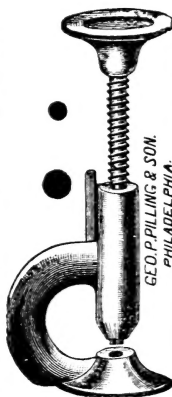
W. R. Poultry Fountains.

PHILADELPHIA
POULTRY MARKER.

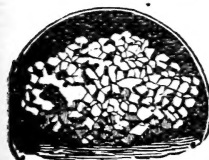
MANN'S CELEBRATED
GREEN BONE CUTTER.



Eureka
Non-Freezing.



GRANITE CRISTAL GRIT MAGNIFIED
Crystal Formation.

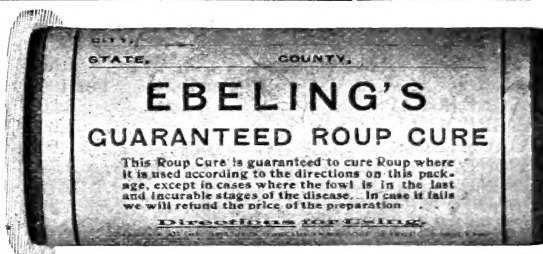
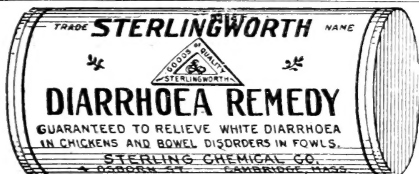


BEFORE.

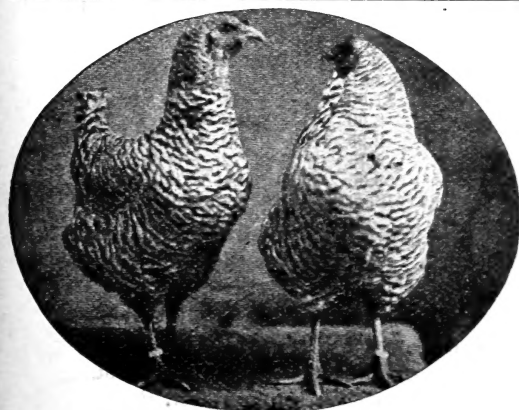
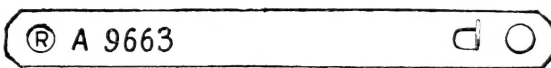


AFTER.

Being Acted Upon by the Gizzard.



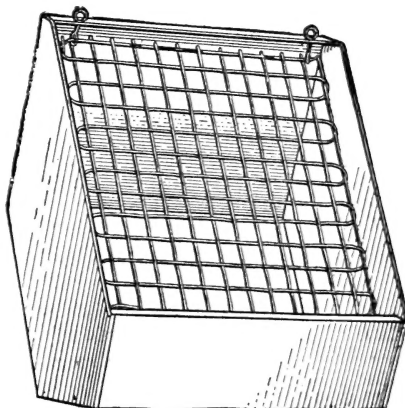
ADJUSTABLE ALUMINUM LEG BANDS.



POULTRY SUPPLIES.

We call special attention to the last pages of this Catalogue which contain a complete list of Poultry Supplies. All goods guaranteed.

"THE BOSTON"
POULTRY DRY FEED HOPPER
Holds 1-2 Bushel.
Price, \$1.00 and \$2.50.



POULTRY SUPPLIES

CYPHERS INCUBATOR, No. 0, 70-egg.	\$15.00
" " " 1, 144-egg.	22.00
" " " 2, 244-egg.	32.00
" " " 3, 390-egg.	38.00

CYPHERS BROODERS

Cyphers Adaptable Hover, 75 chicks	\$8.50
Style A, Outdoor Brooder 75 "	12.50
" B, " " 100 "	16.80
" C, " " 100 "	18.50
" D, Indoor " 75 "	11.50
Metal Parts for Style A Brooder	6.00
" " " Colony without Regu-	
lator,	6.00
Stoves (Cyphers Safety),	1.75
" (Cyphers Improved),	1.75
" (1907 Pattern),	1.50

BEEF SCRAPS.	Per lb.	Per 100
BEEF MEAL.	\$1-2c.	3.00
CRUSHED SHELL.	5c.	4.00
BONE MEAL, granulated, ex. quality,	2c.	.60
BONE MEAL, Raw,	4c.	2.75
BLOOD MEAL.	3c.	2.75
ALFALFA, Mealed,	6c.	5.00
	3c.	2.00

BANDS, Double Clinch	Per doz.	Per 100
" Adjustable,	15c.	.65
" Pigeon Leg,	15c.	.65

BONE CUTTERS

Mann's, No. 5 C, with Crank Handle,	6.00
" No. 5 B, with Balance Wheel,	8.00
" No. 5 B. M., with Iron Stand	
and Balance Wheel,	10.40
Mann's, No. 7, Balance Wheel,	12.00
" No. 7 1-2, Semi-Power,	16.00
" No. 9, with Balance Wheel and	
Iron Stand,	18.40
Mann's, No. 11, Power Machine.	26.00
" No. 12, " "	30.00

CLOVER CUTTER, without stand,	8.50
" " with stand,	10.50

BOXES FOR GRIT AND SHELL, each,	.50
---------------------------------	-----

BOWKER'S ANIMAL MEAL, 10 lb. bags,	.30
" " 25 " "	.68
" " 50 " "	1.25
" " 100 " "	2.50

BONE AND SHELL MILL (see Mill)

BOOKS—POULTRY

999 Questions and Answers, latest and best book on Poultry Raising,	1.00
Reliable Poultry Remedies. How to Prevent and Cure Diseases (84 pages),	.25
Ducks and Geese. How to Succeed with Water Fowls (68 pages),	.50
Turkeys. How to raise Turkeys Profitably (84 pages),	.50
500 Questions and Answers in Poultry Raising,	.50

CAPONIZING INSTRUMENTS (postpaid)	2.75
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CEMENT (Tar Paint for Roofs), per gallon, \$0.50; three gallons,	1.25
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COOP, New Model Brood,	3.50
------------------------	------

CHARCOAL, Nodi, 2 lb. carton,	.10
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" " 50 " sack,	1.25
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CUPS for Food and Water, each,	.15
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CORN SHELLERS (Iron King), each,	1.00
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CAPONIZING SET, each,	2.50
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CANDLE, Sulphur Fumigating, each,	.15
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COOKERS, Food, 30 gal. size, each,	11.00
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CUTTERS

(See opposite page)

Banner Root, No. 7,	5.00
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Fancier's Root,	1.00
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Root, Pulley and Crank, No. 26,	12.00
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" (Crank only),	9.00
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EGG Package Imperial (see Package.)

EGG CABINET

EGG BOXES (Paper), 12-egg, per doz.,	.10
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EGG, Porcelain Nest, per doz.,	.25
--------------------------------	-----

EXTRACTORS, each,	.30
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EGGS, Medicated, per doz.,	.50
----------------------------	-----

" Preservative, 1 gal. jugs, each,	1.00
------------------------------------	------

EGG CASE, 30 doz. size, each,	1.25
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FOOD

Cyphers Chick,	per lb., 3c.; per 100 "	2.50
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" " " "	50 "	1.50
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" Forcing,	" " 3c.	100 "	2.25
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" Scratching,	" " 2½c	50 "	1.25
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" " " "	" " 2½c	100 "	2.25
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" Developing,	" " 3c.	50 "	1.15
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" " " "	" " 3c.	100 "	2.25
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" Laying,	" " 3c.	50 "	1.25
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" " " "	" " 3c.	100 "	2.25
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FOOD HOPPERS (see Hoppers.)

FOOD HOLDERS, small, each,	.75
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" " medium, each,	1.00
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" " large, each,	1.25
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FOUNTAINS

Wall, 1 gallon, each,	.50
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" 2 " "	.75
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Drinking, Galv. Iron, small, each,	.20
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" " " medium, each,	.25
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" " " large, each,	.35
--------------------	-----

" " " special duck,	.50
---------------------	-----

FOUNTAIN (Warm Water Drinking),	1.50
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FOOD OR WATER CUPS (see Cups.)

FENCING, M. M. S. Poultry, No. 19, Galv. Wire.

In. high.	Per bale.	In. high.	Per bale.
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12	\$1.50	42	\$3.50
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18	2.00	48	3.75
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24	2.25	60	4.50
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30	2.75	72	5.00
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36	3.00	84	5.75
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Each roll contains 165 feet long.

FENCING, REGULAR POULTRY, 2 inch mesh.

2-inch mesh.	12-inch.	2-inch mess	48 inch
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2 " "	18 " "	2 " "	60 " "
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2 " "	24 " "	2 " "	72 " "
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2 " "	36 " "		
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In full rolls 5-2c. per square foot.

Less than full rolls 3-4c. per square foot.

Each roll contains 150 lineal feet.

AMERICAN POULTRY FENCE

A fence, not a netting

2158	per rod 45c.
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1558	per rod 40c.
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81

ROOFING, Flintkote, 1-2 ply, per square.	1.75
" " " 1 " " "	2.25
" " " 2 " " "	3.25
" " " 3 " " "	4.00
Each roll contains one or two squares.	
ROOFING, Cypher's Red Rope.	
100 square feet, per roll.	.90
500 " " " " " "	4.00
ROOFING, Tar, 2-ply, 100 square feet.	.85
" " " 3 " 100 " "	1.00
" CAPS, Tin, per lb.,	.07
" NAILS, per lb.,	.05
SHELTERS, Chick, 6 feet.	4.50
" " " 12 " " "	7.00
SHELLS, Oyster, per 100.	.60
Special price for larger lots.	
SULPHUR FUMIGATING CANDLES (see Candles.)	
SPRAY PUMPS, for Spraying Whitewash, each.	\$3.00 and 4.50
SPRAYERS, Compressed Air, Galv. Iron, each.	5.00
SPRAYERS,	50c. to 1.00
STAPLES, Fence, per lb.,	.05
" Poultry Fence, per lb.,	.10
SHEETING, Waterproof, 25 yard lots, 4 inches wide, per yard.	.20
SALT CAT, per brick.	.10
" " per dozen.	1.00
Add 20c. extra for postage.	
THERMOMETER, Incubator, each.	.60
" Brooder, unmounted,	
each.	.45
THERMOMETER, Brooder, mounted, ea.	.55
TESTERS, Practical Egg, each.	1.25
" X-Ray Egg, each.	.25
TRAYS, Pedigree Egg, No. 2, per pair.	4.00
" " " No. 3, " "	4.75
TOBACCO STEMS, 10 lb.,	.25
" " 50 "	1.00
" " 100 "	2.00
TRAP NESTS, each.	1.60
WIRE POULTRY NETTING (see Fencing.)	
POULTRY FOOD	
Pratt's, per pkg.,	25c. and .50
Lee's Egg Maker, per pkg.,	25c. and 2.00
" Prolife, per pkg.,	25c. and .90
BIRD SEED AND SUPPLIES.	
CANARY, 10c. per lb.,	3 for .25
HEMP, 10c. " " "	3 " .25
RAPE, 10c. " " "	3 " .25
MILLET, 10c. " " "	3 " .25
MAW, 20c. " " "	3 " .50
UNHULED RICE, 10c. " " "	3 " .25
SUNFLOWER SEED, 10c. " " "	3 " .25
SHEPARD SONG RESTORER, per bottle,	.25
MARSHALL'S " " " "	.25
MOCKING BIRD, per bottle,	.30
BIRD GRAVEL, 10c. pk., 3 for	.25
CUTTLE BONE, per oz.,	.05
PEPPER SEED, per oz.,	.10
LETTUCE SEED, per oz.,	.05
PIGEON AND DOVE SUPPLIES.	
CANADA PEAS, per bu.,	Market
CHOICE WHEAT, per bu.,	Market
YELLOW CORN, small kernels, per bu.,	Prices
KAFFIR CORN, per bu.,	
MILLET, per bu.,	
HEMP, per lb.,	.08
FOUST'S HEALTH GRIT, per lb., 3c.; per 100.	2.09
DOG BISCUIT, 1 lb., 10c.; 3 lbs.,	25

HARDWARE,
MACHINERY,
IMPLEMENTS.

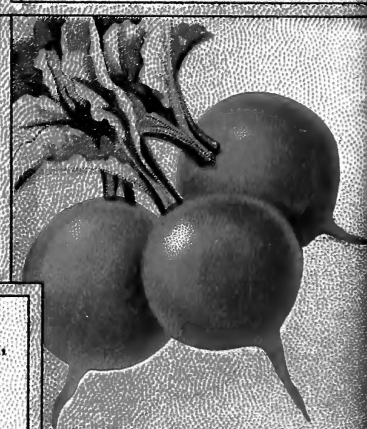
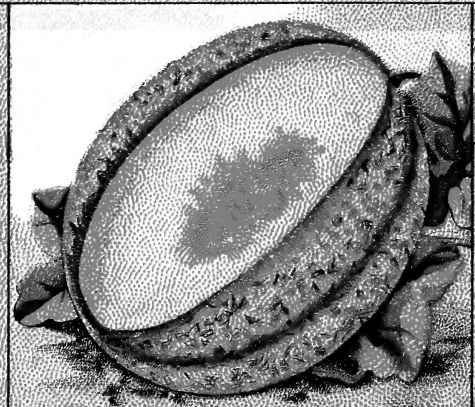
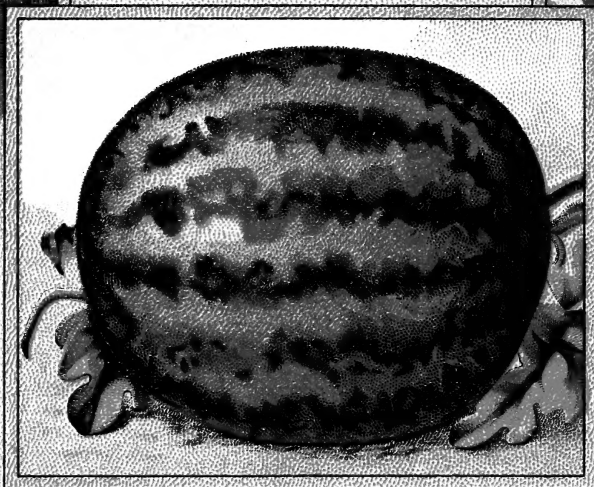
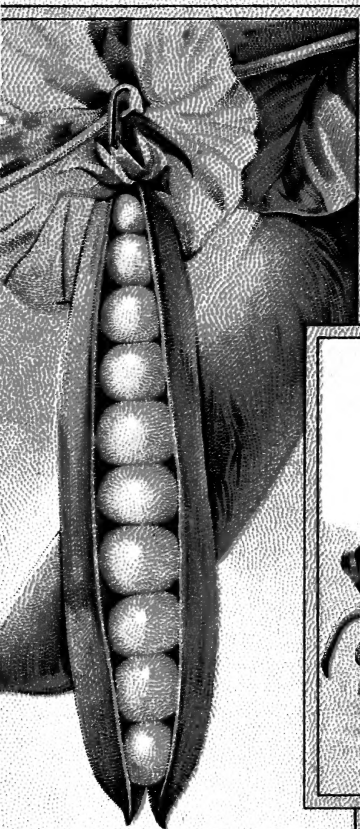
44TH ANNUAL CATALOGUE

1868-1913.

PAINTS,
WAGONS,
POULTRY SUPPLIES.

F.H. EBELING.
SEEDSMAN.

WAREHOUSE:
538-540 CANAL ST.



RETAIL STORE, 217 WARREN ST.,
SYRACUSE, N.Y.

